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August 8, 2018

Ms. Sondra Martinkat
Region 2 - Division of Environmental Remediation
NYS Department of Environmental Conservation
47-40 21st Street
Long Island City, NY 11101

Re: **Quarterly Monitoring and Engineering Control Inspection Report**
1st Quarterly Submission for 2018-2019 Reporting Period
Former Nessen Lamps Site
3200 Jerome Avenue, Bronx, NY
NYSDEC BCP Site No. C203061

Dear Ms. Martinkat:

This Quarterly Monitoring and Engineering Control Inspection Report has been prepared by AKRF, Inc. (AKRF) on behalf of the Rinzler Family Limited Partnership (the Volunteer) to summarize activities performed in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (SMP) for the Former Nessen Lamps Site located at 3200 Jerome Avenue, Bronx, New York (the Site).

As reported to NYSDEC and New York State Department of Health (NYSDOH), a Remedial Investigation (RI) completed at the Site between March 2012 and January 2013 confirmed that soil, groundwater, and soil vapor were contaminated with trichloroethene (TCE), and to a lesser extent, petroleum products. Source areas were identified in the central portion of the Site. Remedial activities included soil removal, in-situ treatment of contaminated groundwater, construction of a site cover system, and installation of an active sub-slab depressurization and soil vapor extraction system (SSD/SVES) that were completed between September 2013 and October 2014. The SSD/SVES has operated continuously at the Site since November 2014. The NYSDEC's approval of AKRF's Final Engineering Report (FER) and SMP resulted in the issuance of a Certificate of Completion (COC) for the Site on December 23, 2014.

Site management activities have been completed since issuance of the COC as documented in quarterly and annual report submissions with the most recent Periodic Review Report (PRR) submitted to NYSDEC in April 2018. Groundwater sampling results have shown continual decreases for TCE and its breakdown products in overburden and bedrock monitoring wells outside of the contaminant source area in the central portion of the Site. Following the second groundwater treatment performed in June 2016 through in-situ chemical oxidation (ISCO), the monitoring of groundwater conditions, and the operation of vapor mitigation engineering controls have continued as required.

In March 2017, AKRF submitted a formal request to NYSDEC to reduce the scope of sampling performed during ongoing site management. The sampling reduction request was approved on April 7,

2017 and included: the discontinuation of groundwater sampling at overburden groundwater monitoring wells MW-2 and MW-4; a reduction in the sampling frequency of bedrock monitoring wells MW-3E-D and MW-5-D from quarterly to annually and reduction of sampling analytes to only volatile organic compounds (VOCs) in these wells; and the continuation of quarterly groundwater sampling of all remaining monitoring wells in the central portion of the site (source well MW-3, cross/upgradient well MW-1E, and cross/downgradient well MW-2E). On April 11, 2018, AKRF submitted a formal request to NYSDEC to reduce the scope of sampling performed during ongoing site management. The sampling reduction request was approved on May 31, 2018 and included: a reduction in the sampling frequency of overburden monitoring wells MW-1E and MW-2E from quarterly to annually and reduction of sampling analytes to only VOCs in these wells; and the continuation of quarterly groundwater sampling of source monitoring well MW-3 in the central portion of the site.

The sampling activities described in this quarterly report were completed in accordance with the updated NYSDEC-approved SMP incorporating reductions in the scope of sampling.

The following activities were performed at the Site in May 2018 as reported herein:

- One round of quarterly groundwater gauging from all existing monitoring wells and sampling from monitoring well MW-3; and
- One quarterly detailed inspection of the operating SSD/SVES and site cover system.

1.0 GROUNDWATER MEDIA MONITORING

1.1 May 2018 Quarterly Groundwater Sampling Methodology

The thirteenth round of quarterly groundwater sampling under Site management was performed at the Site in May 2018 in accordance with AKRF's NYSDEC-approved SMP, and the associated Quality Assurance Project Plan (QAPP).

During the May 2018 quarterly groundwater sampling event, overburden monitoring wells MW-1E, MW-2, MW-2E, MW-3, and MW-4; and bedrock monitoring wells MW-3E-D and MW-5-D, were gauged to record water levels at the Site. Overburden monitoring well MW-3 was purged and sampled in accordance with the SMP and the QAPP. A duplicate sample and volume for a matrix spike/matrix spike duplicate (MS/MSD) sample were collected from monitoring well MW-3. Monitoring well locations are shown on Figures 1 and 2. Quarterly groundwater elevations calculated during the May 2018 sampling event are listed in Table 1.

All groundwater samples were collected in laboratory supplied sampling containers and relinquished under proper chain-of-custody to TestAmerica Laboratories, a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory, with appropriate Quality Assurance/Quality Control (QA/QC) samples and analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) by Method 8260. Additionally, in an effort to continue to track groundwater conditions and the potential for reactions that may lead to natural attenuation, groundwater samples collected from overburden monitoring well MW-3 was also analyzed for select metals and geochemical process parameters including: iron, sodium, and dissolved manganese via EPA Method 200.7; ferrous iron via EPA Method SM3500FE B-11; sulfate via EPA Method 300/SW846 9056A; sulfide via EPA Method SM20 4500S2 F-11; carbonate alkalinity and total alkalinity via EPA Method SM2320B; methane via Method RSK 175; and chloride via EPA Method 300/SW846 9056A.

Groundwater sample analytical results were compared to the NYSDEC Class GA, Type: Health (Water Source) Ambient Water Quality Standards (AWQS). It should be noted that for many of the geochemical process parameters analyzed as part of the ongoing monitoring, AWQS have not been established. More importantly, none of the metals or geochemical process parameters analyzed during ongoing groundwater

monitoring events are considered contaminants of concern at the Site; however, the parameters with established AWQS have been referenced on the data tables for comparative tracking purposes only. Groundwater is not used as a source of potable water in the Bronx.

1.2 Groundwater Analytical Results Summary and Tracking

During the May 2018 quarterly groundwater sampling event, each of the existing overburden and bedrock groundwater monitoring wells (shown on Figures 1 and 2) were gauged prior to performance of the sampling from monitoring well MW-3. The corresponding groundwater elevations calculated during the May 2018 sampling event are listed in Table 1. Groundwater elevations collected on May 25, 2018 were higher in all monitoring wells in comparison to elevations calculated during the February 2018 sampling event, but the inferred westerly flow remained consistent in the overburden groundwater beneath the Site. A groundwater elevation contour map associated with the May 2018 quarterly sampling event for the shallow (overburden) wells is included as Figure 2. Tabulated groundwater elevations for MW-1E, MW-2E, MW-3, MW-3E-D, and MW-5-D are displayed on Graph 1 to show long-term seasonal fluctuations. A groundwater sampling data sheet for the monitoring well sampled during the May 2018 sampling event (MW-3) is included as Appendix A.

Groundwater analytical results generated during the quarterly sampling event from monitoring well MW-3 are listed in Table 2 (VOCs) and Table 3 (Geochemical Process Parameters). All VOC exceedances of AWQS are also presented on Figure 3 in comparison with historic sampling events.

A review of the groundwater analytical results generated during this quarterly groundwater monitoring event is discussed in the sections below and has been compared to previous sampling events completed at the Site.

1.2.1 VOC Results

TCE was detected in source area overburden monitoring well MW-3 at a concentration of 940 parts per billion (ppb), exceeding the AWQS of 5 ppb in source area monitoring well MW-3 (940 ppb).

Chlorinated VOCs associated with breakdown of TCE, including cis-1,2-dichloroethene (29 ppb) and trans-1,2-DCE (5.7 ppb) were detected at concentrations exceeding applicable AWQS in overburden monitor well MW-3. The VOC chloroform (indicative of organic breakdown in the presence of chlorine) was detected at a concentration exceeding the AWQS of 7 ppb in monitoring well MW-3 (14 ppb). The VOC vinyl chloride was detected at an estimated concentration of 1 ppb, below the AWQS of 2 ppb.

The trends observed since immediately prior to and following the second groundwater treatment event indicate further breakdown of TCE is occurring in groundwater beneath the central portion of the Site. The trends for TCE in groundwater monitoring wells are shown on Chart C1.

The petroleum-related compound benzene was detected in overburden monitoring well MW-3 at a concentration of 6.0 ppb, exceeding the AWQS of 1 ppb. The petroleum-related compound ethylbenzene was detected in overburden monitoring well MW-3 at a concentration of 5.2 ppb, exceeding the AWQS of 5.0 ppb. The petroleum-related compound cyclohexane (which does not have an AWQS) was detected in overburden monitor well MW-3 at an estimated concentration of 24 ppb. The petroleum-related compound methyl tert-butyl ether (MTBE) was detected in overburden monitor wells MW-3 at an estimated concentration of 0.91 ppb, below the AWQS 10 ppb.

Methylene chloride was detected in NL-FB-20180525 at an estimated concentration of 0.89 ppb. Methylene chloride was not detected in the associated field sample NL-MW-3-20180525. Methylene chloride field blank detections are suspected to be attributed to laboratory contamination, and are not related to the ongoing remediation at the Site.

As shown in Table 2, the reported concentrations of VOCs in the duplicate sample collected from monitor well MW-3 were generally consistent with the parent sample for all compounds. A dilution factor of 5 was used to analyze the groundwater sample collected from monitor well MW-3 due to the detection of TCE in comparison to intended reporting limits. Therefore, select reporting limits became elevated in the sample from MW-3 and prohibited laboratory instruments from reporting to or below NYSDEC AWQS for select compounds. However, these compounds are not primary contaminants of concern at the Site. Analytical results for VOCs in groundwater samples collected in May 2018 are summarized in Table 2 and contaminants of concern are displayed in comparison to previous sampling events on Figure 3.

1.2.2 Geochemical Process Parameter Results

A summary of dissolved oxygen readings recorded during sample collection and geochemical process parameters reported by TestAmerica are summarized in comparison to the previous quarterly sampling event in Table T1 below.

Table T1
Quarterly Geochemical Process Parameter Comparison

Sample Date -->	2/20/2018	5/25/2018	Quarterly Variance
Monitoring Well	MW-3	MW-3	
Metals (µg/L)			
Iron	10,100	5,960	-41%
Manganese, Dissolved	1,230	1,430	16%
Sodium	193,000	268,000	38.9%
Methane (µg/L)			
	470	360	-23%
General Chemistry (mg/L)			
Alkalinity	394	374	-5%
Carbonate Alkalinity as CaCO ₃	ND	ND	NC
Chloride	387	401	4%
Ferrous Iron	ND	ND	NC
Sulfate	729	320	-56%
Sulfide	ND	ND	NC
Dissolved Oxygen*	0.31	3.03	877%
ND - Not Detected above laboratory reporting limit NC - No Change for Quarterly Variance. * - Dissolved oxygen measured during field sampling activities, dissolved oxygen readings listed above were collected following groundwater monitoring well stabilization.			

Additional groundwater monitoring quality parameters collected during the May 2018 sampling event are shown on the groundwater sampling data sheets included as Appendix A. Analytical results for geochemical process parameters in groundwater samples collected in May 2018 are summarized in Table 3. The laboratory analytical data report is included as Appendix C with the associated Data Usability Summary Report (DUSR) included in Appendix D.

The reported concentrations of geochemical parameters in the duplicate sample collected from monitor well MW-3 were generally consistent with the parent sample for all analyzed compounds.

Elevated dilution factors from 11 to 160 were used to analyze select compounds from the groundwater samples collected from monitor well MW-3 due to high detections of varying geochemical process parameters.

2.0 ENGINEERING CONTROL MONITORING

2.1 2018 SSD/SVES Detailed Monitoring Inspection: 1st Quarter 2018-2019 Reporting Period

A detailed inspection of operating engineering controls was performed during this reporting period on May 25, 2018. The detailed monitoring inspection was performed in accordance with AKRF's NYSDEC-approved SMP and the associated QAPP. The locations of the SSD/SVES components are shown on Figure 1.

The detailed inspection included the collection of individual vacuum and airflow readings from the SSDS pits, SSDS slotted pipe, and the SVE well in addition to the inspection of the blower, alarm checks, and field screening of the sample ports for total VOC concentrations using a photoionization detector (PID). During the inspection conducted on May 25, 2018, the four sub-slab vacuum monitoring points (MP-1 through MP-4) were accessed and checked with a manometer capable of reading down to 0.001 inches of H₂O to confirm negative pressure is being extended beneath the entire first floor slab.

The following items were inspected and noted to conform to design standards or did not require additional maintenance during the completion of the Detailed Monitoring Inspections of the SSD and SVES in May 2018:

- Air flow rate in cubic feet per minute (cfm) from each of the SSD and SVE lines by a visual inspection and conversion of pitot tubes/magnehelic gauges affixed to each of the manifold legs;
- Measured vacuum readings in inches of H₂O from each of the SSD and SVE lines by a visual inspection of magnehelic gauges affixed to each of the manifold legs and the use of a manometer;
- Vacuum readings in inches of H₂O from monitoring points MP-1 through MP-4 through the manual access of each point and use of a digital manometer;
- Pre-and post-blower temperature of vapor collected by the SSD/SVES;
- Temperature of blower enclosure (confirmed to be below maximum based on absence of alarm condition);
- PID readings collected for ambient air in the first floor, ambient air in the basement, and system sample ports;
- Level of condensate collected in manifold/collection tank (none was detected and no transfer of condensate to 55-gallon drum was necessary); and
- The structural integrity of exhaust stack on the roof of the Site building was confirmed.

As shown in the detailed inspection form from the May 2018 event included in Appendix B, instantaneous PID readings collected at the combined pre-blower and post-blower sample ports were 0.1 ppm and non-detect (ND), respectively. Vacuum readings were collected at monitoring points MP-1, MP-2, MP-3 and MP-4 on multiple occasions during the detailed SSD/SVES inspections performed in accordance with the SMP during 2016 through 2018. Table T2 summarizes historic and the most recently collected vacuum readings taken at the four monitoring points collected during site management activities. A PID reading collected from the soil vapor extraction well SVE-1 was 21.7 ppm. This reading is consistent with previous quarter's PID readings at the SVE-1.

Table T2 – Monitoring Point (MP) Pressure Readings Summary

Monitoring Point	08-03-2016	10-19-2016	12-09-2016	04-13-2017	08-15-2017	11-07-2017	02-21-2018	05-25-2018
	Vacuum (in H ₂ O)	Vacuum (in H ₂ O)	Vacuum (in H ₂ O)	Vacuum (in H ₂ O)	Vacuum (in H ₂ O)	Vacuum (in H ₂ O)	Vacuum (in H ₂ O)	Vacuum (in H ₂ O)
MP-1	-0.918	-1.018	-0.938	-0.944	-1.013	-0.973	-0.914	-1.001
MP-2	-0.085	-0.107	-0.079	-0.090	-0.108	-0.101	-0.082	-0.118
MP-3	-0.05	-0.04	-0.04	-0.031	-0.028	-0.028	-0.022	-0.018
MP-4	-0.042	-0.037	-0.028	-0.028	-0.024	-0.024	-0.015	-0.014

These readings confirmed sufficient negative pressure was being maintained beneath the entire first floor building slab. The design and operating goal established in the SMP for negative pressure was 0.005 inches of H₂O. Observations at the Site confirmed that conditions have been maintained at three to five times beyond the typical requirement. The system has continued to operate during this period at a variable frequency drive (VFD) setting of 35 Hz to maintain negative pressure across the entire building slab. Air flow rate calculations used to determine air flow in cubic feet per minute (CFM) based on gauge readings. During operation of the VFD at 35 Hz, normal system flow rates range between approximately 40 and 100 cfm at monitoring locations SSDS-1 through SSDS-8 and between 10 and 30 cfm for SVE-1 during system operation without carbon units attached. All vacuum and airflow readings collected from basement control manifold legs SSDS-1 through SSDS-8, and SVE-1 were noted to within acceptable ranges as shown on the inspection form included in Appendix B.

All field observations and performance evaluations readings collected during the May 2018 inspection were recorded on the Detailed System Monitoring Inspection Form included as Appendix B.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 Results Summary

The most recent groundwater sampling event occurred approximately 22 months after the supplemental groundwater treatment injection event conducted in 2016 and approximately three months after the most recent quarterly groundwater sampling event in February 2018. For the past eight quarterly groundwater sampling events, results for contaminants of concerns showed an overall decrease at the source area. The breakdown compounds cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were observed to decrease in monitoring well MW-3.

The trends observed over the past five quarterly groundwater sampling events immediately after the supplemental groundwater injection event indicate further breakdown of TCE is likely occurring in groundwater beneath the central portion of the Site. TCE was detected at 940 ppb in source well MW-3 during the most recent sampling event; its lowest level since the beginning of the groundwater monitoring program in 2014. Also, the concentration of total VOCs was detected at 1,055 ppb in source well MW-3; also its lowest level since the beginning of the groundwater monitoring program in 2014.

Groundwater monitoring will continue, as determined by NYSDEC and NYSDOH, until residual groundwater concentrations are found to be below NYSDEC standards or have become asymptotic over an extended period and results will be evaluated in conjunction with the operation of the SSD/SVES. Monitoring will continue in conformance with the SMP and the approved March 2017 and April 2018 Site Management Sampling Reduction Requests.

Based on the most recent SSD/SVES inspection, the SSD/SVES continues to operate as designed to remove residual TCE contamination beneath the Site while preventing soil vapor intrusion from affecting indoor air quality within the building. No substantive issues with the SSD/SVES were identified during this period of operation. Operation, maintenance, and sampling activities will continue as specified in the SMP, the approved March 2017 Site Management Sampling Reduction Request, and in consultation with NYSDEC/NYSDOH.

3.2 Scheduled Activities

The next (2nd round 2018-2019 reporting period) round of quarterly groundwater sampling will be completed after hours or while the building is not occupied in August 2018 in accordance with the SMP. Based on a recent request from NYSDEC/NYSDOH, the Volunteer will submit a Quality Assurance Project Plan (QAPP) for the sampling and analysis of Perfluorooctanoic Acid and Perfluorooctanesulfonic Acid (PFOA/PFOS) in groundwater. Pending NYSDEC/NYSDOH review and approval, the PFOA/PFOS sampling will be completed during sampling activities scheduled for second or third quarter of the 2018-2019 reporting period.

Please feel free to contact Dustin at (646) 388-9767 or Marc at (914) 922-2356 with any questions or concerns regarding ongoing operations and maintenance of the engineering controls at the Site.

Sincerely,
AKRF, Inc.



Dustin Kapson
Senior Technical Director



Marc Godick
Senior Vice President

cc:

Jane O Connel, NYSDEC
Dawn Hettrick, NYSDOH
James Rinzler, Rinzler Family Limited Partnership
Lisa Veglia, QSAC
Susan Silvestri, QSAC

Attachments:

Tables

Table T1 (in text) – Quarterly Geochemical Process Parameter Comparison

Table T2 (in text) – Monitoring Point Pressure Readings Summary

Table 1 – Groundwater Elevation Measurements

Table 2 – Groundwater Analytical Results for VOCs

Table 3 – Groundwater Analytical Results for Geochemical Process Parameters

Charts

Chart C1 – TCE Concentration in Groundwater Monitoring Wells – Trend Over Time

Graphs

Graph 1 – Groundwater Elevation over Time by Monitoring Well

Figures

Figure 1 – Site Cover System Plan

Figure 2 – Groundwater Elevation Contour Map 5/25/2018

Figure 3 – Baseline and Post-Remediation Groundwater Quality

Appendices

Appendix A – Groundwater Sampling Data Sheet

Appendix B – SSD/SVES Inspection Forms

Appendix C – Laboratory Analytical Data Package

Appendix D – Data Usability Summary Report

TABLES

Table 1
3200 Jerome Avenue
Bronx, NY
Site Management
Groundwater Elevations

Monitor Well ID	Top of Casing (TOC) Elevation (feet)	Water Table (feet below TOC) 3/5/2014	Groundwater Elevation (feet) 3/5/2014	Water Table (feet below TOC) 5/2/2014	Groundwater Elevation (feet) 5/2/2014	Water Table (feet below TOC) 7/10/2014	Groundwater Elevation (feet) 7/10/2014	Water Table (feet below TOC) 10/21/2014	Groundwater Elevation (feet) 10/21/2014	Water Table (feet below TOC) 1/30/2015	Groundwater Elevation (feet) 1/30/2015	Water Table (feet below TOC) 5/6/2015	Groundwater Elevation (feet) 5/6/2015
MW-2	133.80	18.68	115.12	17.70	116.10	17.45	116.35	18.60	115.20	17.82	115.98	17.02	116.78
MW-3	133.97	19.59	114.38	19.00	114.97	19.10	114.87	20.11	113.86	19.55	114.42	18.68	115.29
MW-4	133.94	19.48	114.46	18.85	115.09	18.88	115.06	19.94	114.00	19.42	114.52	18.32	115.62
MW-5-D	134.21	20.07	114.14	19.34	114.87	19.49	114.72	20.55	113.66	19.97	114.24	19.11	115.10
MW-1E	135.89	21.24	114.65	20.72	115.17	20.55	115.34	21.64	114.25	21.15	114.74	20.30	115.59
MW-2E	136.18	21.77	114.41	21.25	114.93	21.32	114.86	22.39	113.79	21.84	114.34	21.03	115.15
MW-3E-D	135.73	21.37	114.36	20.77	114.96	20.90	114.83	21.10	114.63	21.42	114.31	20.64	115.09

Monitor Well ID	Top of Casing (TOC) Elevation (feet)	Water Table (feet below TOC) 9/3/2015	Groundwater Elevation (feet) 9/3/2015	Water Table (feet below TOC) 12/14/2015	Groundwater Elevation (feet) 12/14/2015	Water Table (feet below TOC) 3/9/2016	Groundwater Elevation (feet) 3/9/2016	Water Table (feet below TOC) 8/2/2016	Groundwater Elevation (feet) 8/2/2016	Water Table (feet below TOC) 10/18/2016	Groundwater Elevation (feet) 10/18/2016	Water Table (feet below TOC) 12/8/2016	Groundwater Elevation (feet) 12/8/2016
MW-2	133.80	19.02	114.78	20.00	113.80	18.75	115.05	18.97	114.83	19.92	113.88	14.91	118.89
MW-3	133.97	19.94	114.03	20.64	113.33	19.4	114.57	19.7	114.27	20.62	113.35	18.65	115.32
MW-4	133.94	19.88	114.06	20.64	113.30	19.4	114.54	19.65	114.29	20.59	113.35	17.77	116.17
MW-5-D	134.21	20.38	113.83	21.01	113.20	19.8	114.41	20.06	114.15	20.98	113.23	18.98	115.23
MW-1E	135.89	21.68	114.21	22.38	113.51	21.19	114.70	21.12	114.77	22.34	113.55	20.66	115.23
MW-2E	136.18	22.26	113.92	22.92	113.26	21.66	114.52	21.95	114.23	22.89	113.29	21.17	115.01
MW-3E-D	135.73	21.85	113.88	22.48	113.25	21.20	114.53	21.52	114.21	22.47	113.26	20.78	114.95

Monitor Well ID	Top of Casing (TOC) Elevation (feet)	Water Table (feet below TOC) 4/13/2017	Groundwater Elevation (feet) 4/13/2017	Water Table (feet below TOC) 8/14/2017	Groundwater Elevation (feet) 8/14/2017	Water Table (feet below TOC) 11/7/2017	Groundwater Elevation (feet) 11/7/2017	Water Table (feet below TOC) 2/20/2018	Groundwater Elevation (feet) 2/20/2018	Water Table (feet below TOC) 5/25/2018	Groundwater Elevation (feet) 5/25/2018
MW-2	133.80	18.71	115.09	18.71	115.09	19.66	114.14	19.11	114.69	17.26	116.54
MW-3	133.97	18.98	114.99	19.28	114.69	20.19	113.78	19.72	114.25	18.41	115.56
MW-4	133.94	19.05	114.89	19.28	114.66	20.17	113.77	19.73	114.21	18.28	115.66
MW-5-D	134.21	19.31	114.90	19.66	114.55	20.58	113.63	20.06	114.15	18.80	115.41
MW-1E	135.89	20.73	115.16	21.02	114.87	21.92	113.97	21.45	114.44	20.18	115.71
MW-2E	136.18	21.14	115.04	21.51	114.67	22.44	113.74	21.95	114.23	20.72	115.46
MW-3E-D	135.73	20.65	115.08	21.1	114.63	22.02	113.71	21.54	114.19	20.35	115.38

Notes:
All elevations based on surveying activities refer to the Borough of the Bronx Topographical Bureau Datum, which is 2.608 feet above mean sea level.
TOC - Top of Casing

Table 2
3200 Jerome Avenue
Bronx, NY

Site Management Quarterly Groundwater Sampling - May, 2018
Volatile Organic Compounds

Client ID	NYSDEC	NL-MW-3-20180525	NL-MW-DUP-20180525	NL-FB-20180525	NL-TB-20180525
Lab Sample ID	Class GA	460-157038-1	460-157038-2	460-157038-3	460-157038-4
Date Sampled	Ambient	5/25/2018	5/25/2018	5/25/2018	5/25/2018
Dilution	Standard	5	5	1	1
µg/L	µg/L				
1,1,1-Trichloroethane	5	1.4 U	1.4 U	0.28 U	0.28 U
1,1,2,2-Tetrachloroethane	5	0.95 U	0.95 U	0.19 U	0.19 U
1,1,2-Trichloroethane	1	0.40 U	0.40 U	0.080 U	0.080 U
1,1-Dichloroethane	5	1.2 U	1.2 U	0.24 U	0.24 U
1,1-Dichloroethene	5	1.7 U	1.7 U	0.34 U	0.34 U
1,2,4-Trichlorobenzene	5	1.4 U	1.4 U	0.27 U	0.27 U
1,2-Dibromo-3-Chloropropane	0.04	1.2 U	1.2 U	0.23 U	0.23 U
1,2-Dibromoethane	0.0006	0.95 U	0.95 U	0.19 U	0.19 U
1,2-Dichlorobenzene	3	1.1 U	1.1 U	0.22 U	0.22 U
1,2-Dichloroethane	0.6	1.3 U	1.3 U	0.25 U	0.25 U
1,2-Dichloropropane	1	0.90 U	0.90 U	0.18 U	0.18 U
1,3-Dichlorobenzene	3	1.7 U	1.7 U	0.33 U	0.33 U
1,4-Dichlorobenzene	3	1.7 U	1.7 U	0.33 U	0.33 U
2-Butanone	50	11 U	11 U	2.2 U	2.2 U
2-Hexanone	50	3.6 U	3.6 U	0.72 U	0.72 U
4-Methyl-2-pentanone	NS	3.2 U	3.2 U	0.63 U	0.63 U
Acetone	50	14 J	13 J	1.1 U	1.1 U
Benzene	1	6.0	4.8 J	0.090 U	0.090 U
Bromodichloromethane	50	0.75 U	0.75 U	0.15 U	0.15 U
Bromoform	50	0.90 U	0.90 U	0.18 U	0.18 U
Bromomethane	5	0.90 U	0.90 U	0.18 U	0.18 U
Carbon disulfide	60	1.1 U	1.1 U	0.22 U	0.22 U
Carbon tetrachloride	5	1.7 U	1.7 U	0.33 U	0.33 U
Chlorobenzene	5	1.2 U	1.2 U	0.24 U	0.24 U
Chloroethane	5	1.9 U	1.9 U	0.37 U	0.37 U
Chloroform	7	14	12	0.22 U	0.22 U
Chloromethane	5	1.1 U	1.1 U	0.22 U	0.22 U
cis-1,2-Dichloroethene	5	29	25	0.26 U	0.26 U
cis-1,3-Dichloropropene	0.4 TS	0.80 U	0.80 U	0.16 U	0.16 U
Cyclohexane	NS	24 J^	16 J^	0.26 U	0.26 U
Dibromochloromethane	50	1.1 U	1.1 U	0.22 U	0.22 U
Dichlorodifluoromethane	5	0.70 U	0.70 U	0.14 U	0.14 U
Ethylbenzene	5	5.2 J^	3.3 J	0.30 U	0.30 U
Freon TF	5	1.7 U	1.7 U	0.34 U	0.34 U
Isopropylbenzene	5	3.3 J	2.2 J	0.32 U	0.32 U
Methylcyclohexane	NS	9.6 J^	5.4 J^	0.22 U	0.22 U
Methylene Chloride	5	1.2 U^	1.3 U^	0.89 J	3.6
MTBE	10	0.91 J	0.76 J	0.13 U	0.13 U
Styrene	5	0.85 U	0.85 U	0.17 U	0.17 U
Tetrachloroethene	5	1.2 J	1.0 J	0.12 U	0.12 U
Toluene	5	1.3 U	1.3 U	0.25 U	0.25 U
trans-1,2-Dichloroethene	5	5.7	4.6 J	0.18 U	0.18 U
trans-1,3-Dichloropropene	0.4 TS	0.95 U	0.95 U	0.19 U	0.19 U
Trichloroethene	5	940	760	0.22 U	0.22 U
Trichlorofluoromethane	5	0.75 U	0.75 U	0.15 U	0.15 U
Vinyl chloride	2	1.0 J	0.91 J	0.060 U	0.060 U
Xylenes, Total	NS	1.4 U	1.4 U	0.28 U	0.28 U
Total Conc	10,000	1,055.11	850.27	0.89	3.6

^: Value adjusted based on third party data validation report.

Table 3
3200 Jerome Avenue
Bronx, NY

Site Management Quarterly Groundwater Sampling - May, 2018
Geochemical Process Parameters

Client ID	NYSDEC	NL-MW-3-20180525	NL-MW-DUP-20180525	NL-FB-20180525
Lab Sample ID	Class GA	460-157038-1	460-157038-2	460-157038-3
Date Sampled	Ambient	5/25/2018	5/25/2018	5/25/2018
Dilution	Standard	1	1	1
Metals - µg/L	µg/L			
Iron	NS (300)	5,960	7,380	111 U
Manganese, Dissolved	NS (300)	1,430	1,510	5 U
Sodium	20,000	268,000	272,000	846 U

Methane - µg/L	µg/L	11	11	1
Methane	NS	360	450	1 U

General Chemistry - mg/L	mg/L	1/160 †	1/100 †	1/10 †
Alkalinity	NS	374	346	5 U
Carbonate Alkalinity as CaCO3	NS	5 U	5 U	5 U
Chloride	250	401	425	1.26
Ferrous Iron	NS	0.056 U HF	0.056 U HF	0.056 U HF
Sulfate	250	320	323	0.33 U
Sulfide	NS	0.58 U	0.58 U	0.58 U

†: *Dilution factor varies*

NS (300): *No health based standard; 300 ppb established under effluent limitations for turbidity.*

Tables 1-3
Former Nessen Lamps Site
3200 Jerome Avenue
Bronx, New York
Site Management Sampling Analytical Results
Notes

GENERAL

NS : No cleanup objective listed.

ND : Not detected above laboratory reporting limit

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

HF : Field parameter with a holding time of 15 minutes.

† : Dilution factor varies

J HF B : Compound was found in the blank and sample.

TS : Value represents a sum total standard.

U^ : The qualifier was adjusted following completion of Data Validation.

GROUNDWATER

Exceedences of NYSDEC Class GA Ambient Standards are highlighted in bold font.

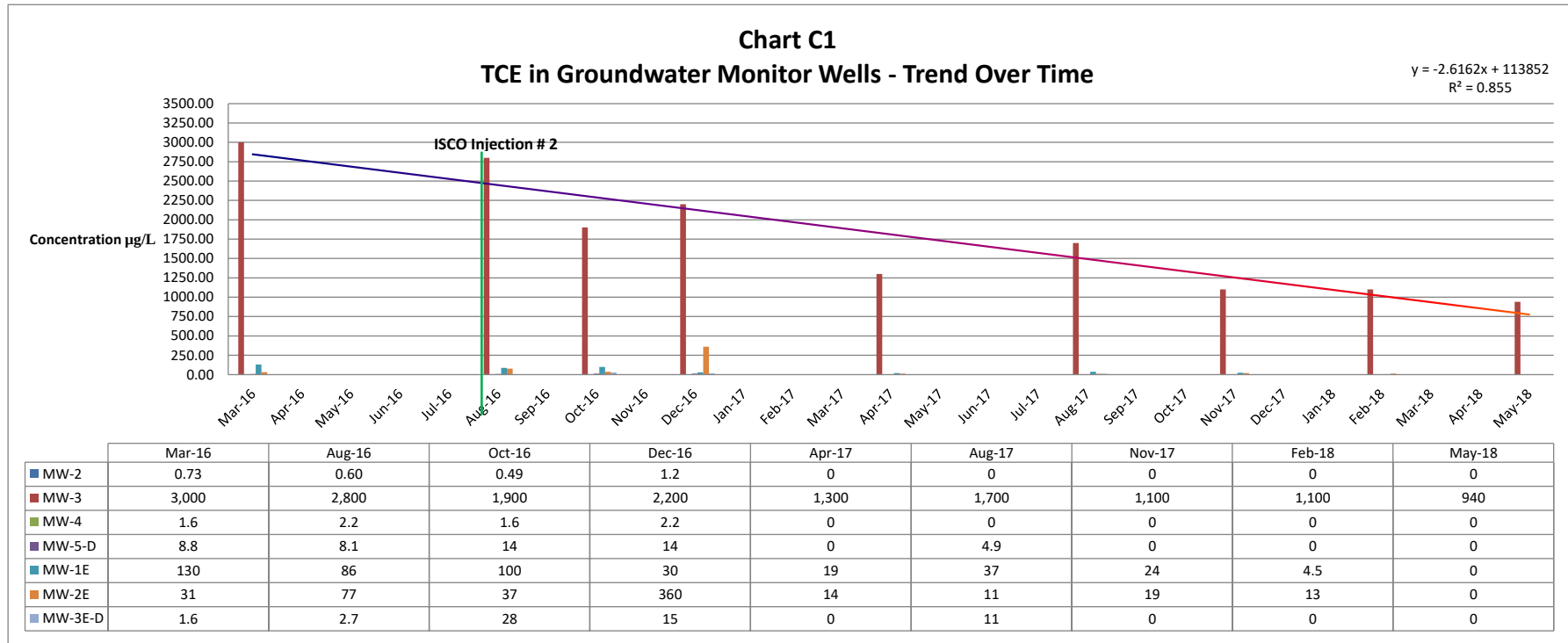
NYSDEC
Class GA
Ambient
Standard New York State Department of Environmental Conservation Technical and Operational
: Guidance Series (1.1.1): Class: GA, Type: Health (Water Source) Ambient Water Quality
Standards and Guidance Values and Groundwater Effluent Limitations.

µg/L : micrograms per Liter = parts per billion (ppb)

mg/L : milligrams per Liter = parts per million (ppm)

CHARTS

Chart C1
Former Nessen Lamps Site
3200 Jerome Avenue
Bronx, NY
Site Management
Historic TCE Concentrations In Groundwater Monitoring Wells



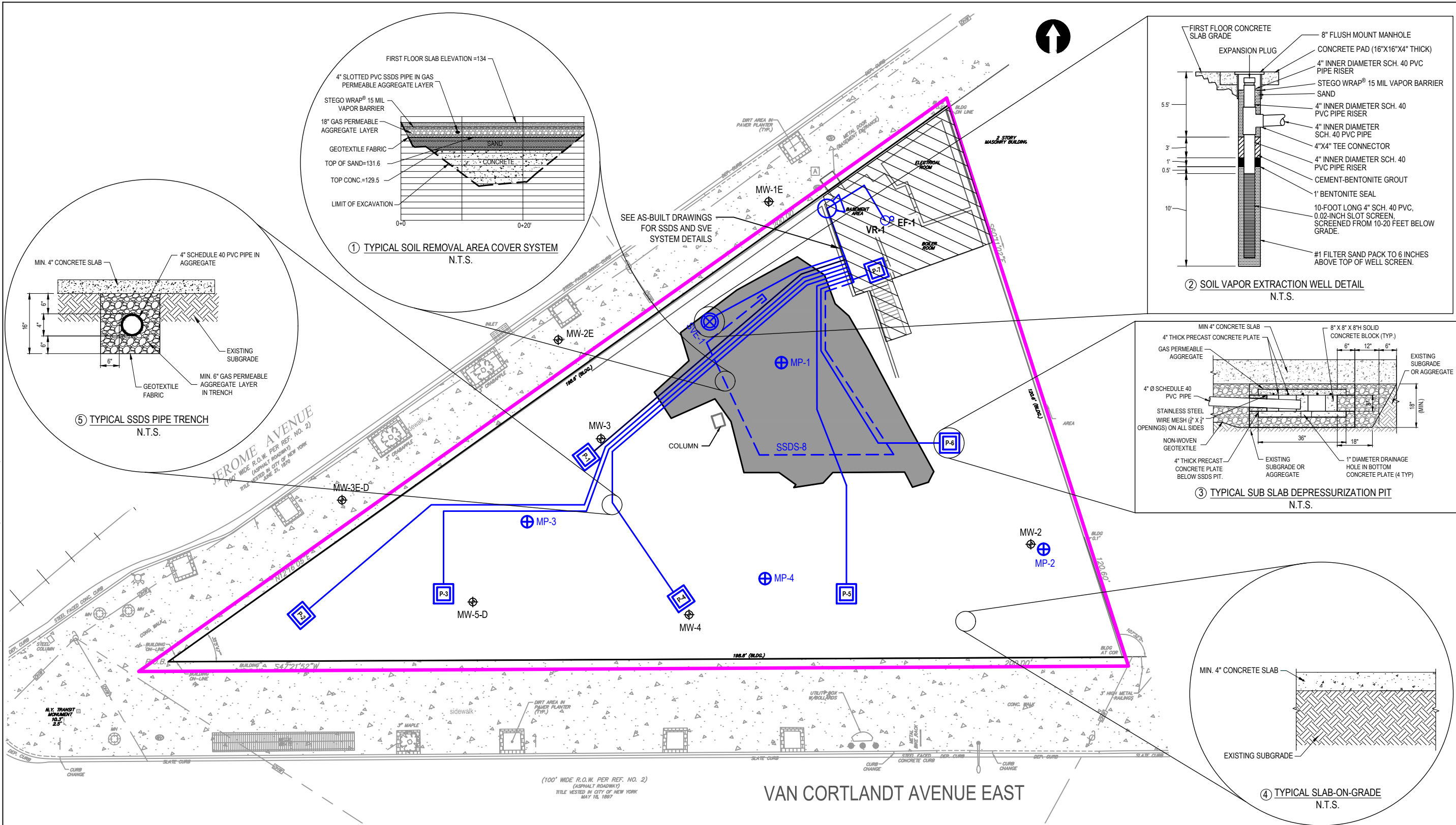
Note: Results shown as "0" (beginning in April 2017) indicate that sampling and analysis was not performed following approval from NYSDEC to discontinue or reduce frequency at these monitoring well locations.

GRAPHS



FIGURES

©2018 AKRF, Inc. W:\Projects\11455 - 3200 JEROME AVE\Technical\Hazard\04-SMO&M\Quarterly Reports\2017\Q4\CAD\11455 Fig 1 Site Cover.dwg last save: mvelieux 6/19/2018 9:11 AM



NOTES:

1. THE ENTIRE SITE (BLOCK 3323, LOT 36) IS AFFECTED BY ENGINEERING CONTROLS CONSISTING OF THE CAP (CONCRETE FLOOR SLABS AND UNDERLYING MATERIALS) AND THE SUB-SLAB DEPRESSURIZATION AND SOIL VAPOR EXTRACTION SYSTEM.
2. BASEMAP TAKEN FROM A15 (LOWER FLOOR PLAN) DATED 9/20/90 AND EXTENT OF SOIL EXCAVATION TAKEN FROM DPK CONSULTING, LLC SURVEY DATED 5/13/14.
3. ELEVATIONS SHOWN IN SOIL REMOVAL AREA ARE BASED ON THE BRONX BOROUGH DATUM.

LEGEND

- | | |
|--|--|
| | VAPOR BARRIER, GAS PERMEABLE AGGREGATE, AND CONCRETE SLAB RESTORATION ASSOCIATED WITH SOIL REMOVAL |
| | EXTENT OF BASEMENT |
| | VR-1 8-INCH STEEL PIPE VERTICAL RISER AND IDENTIFICATION NUMBER |
| | EF-1 2-INCH STEEL PIPE VERTICAL RISER AND IDENTIFICATION NUMBER |

- | | |
|--|-----------------------------------|
| | MP-1 SUB-SLAB MONITORING POINT |
| | SVE-1 SOIL VAPOR EXTRACTION WELL |
| | MW-4 GROUNDWATER MONITORING WELL |
| | P-1 SUB-SLAB DEPRESSURIZATION PIT |

- | | |
|--|-----------------------|
| | SSDS/SVE BLOWER |
| | PROJECT SITE BOUNDARY |
| | BUILDING LINE |

- | | |
|--|--|
| | 4-INCH Ø SOLID PVC PIPE (IN SUB-SLAB TRENCHES) |
| | 4-INCH Ø SLOTTED PVC PIPE |



Former Nessen Lamps Site
3200 Jerome Avenue
Bronx, New York

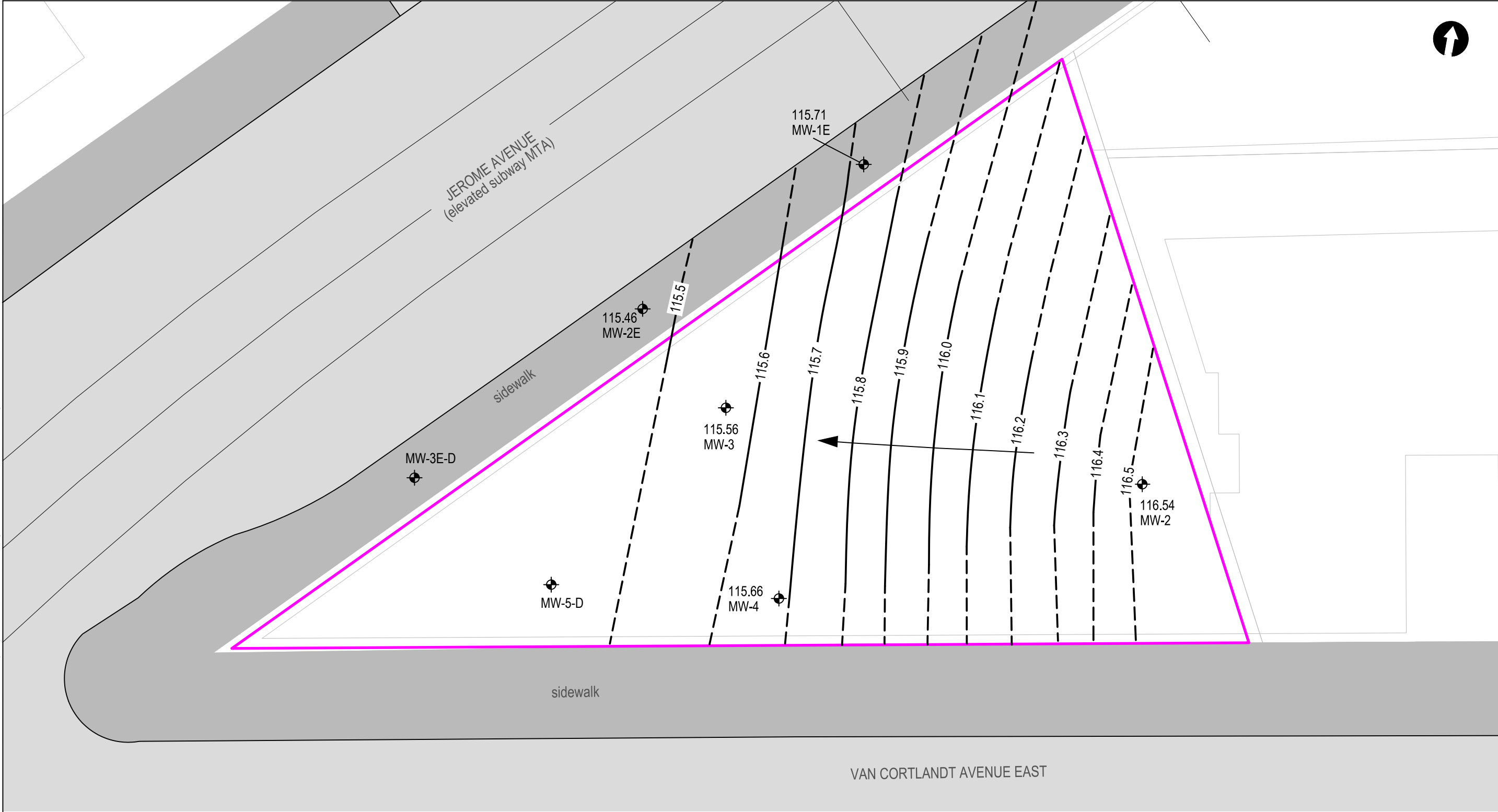
SITE COVER SYSTEM PLAN

DATE	6/19/2018
PROJECT NO.	11455
FIGURE	1



440 Park Avenue South, New York, NY 10016

©2018 AKRF, Inc. W:\Projects\11455 - 3200 JEROME AVE\Technical\Hazmat\04-SMO&M\Quarterly Reports\2018\Q1\CAD\11455 Fig 2 GW Contour Map 5-25-2018.dwg last save: mveilleux 7/27/2018 9:00 AM



Notes:

1. Elevations refer to the borough of the Bronx topographical bureau datum, which is 2.608 feet above mean sea level.
2. Locations and Elevations of the on-site monitor wells are based upon an updated January 8, 2013 Monitor Well Location Survey completed by Montrose Surveying Co., LLP., and subsequent surveying activities completed by DPK Consulting, LLC (revision dated May 13, 2014).
3. Groundwater Elevation Contours shown are based on measurements taken from the Overburden Groundwater Aquifer. Measurements from bedrock wells (MW-3E-D and MW-5-D) were not used.

LEGEND

- PROJECT SITE BOUNDARY
- EXISTING MONITORING WELL LOCATION WITH WATER TABLE ELEVATION IN FEET
- GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- INFERRED GROUNDWATER FLOW DIRECTION



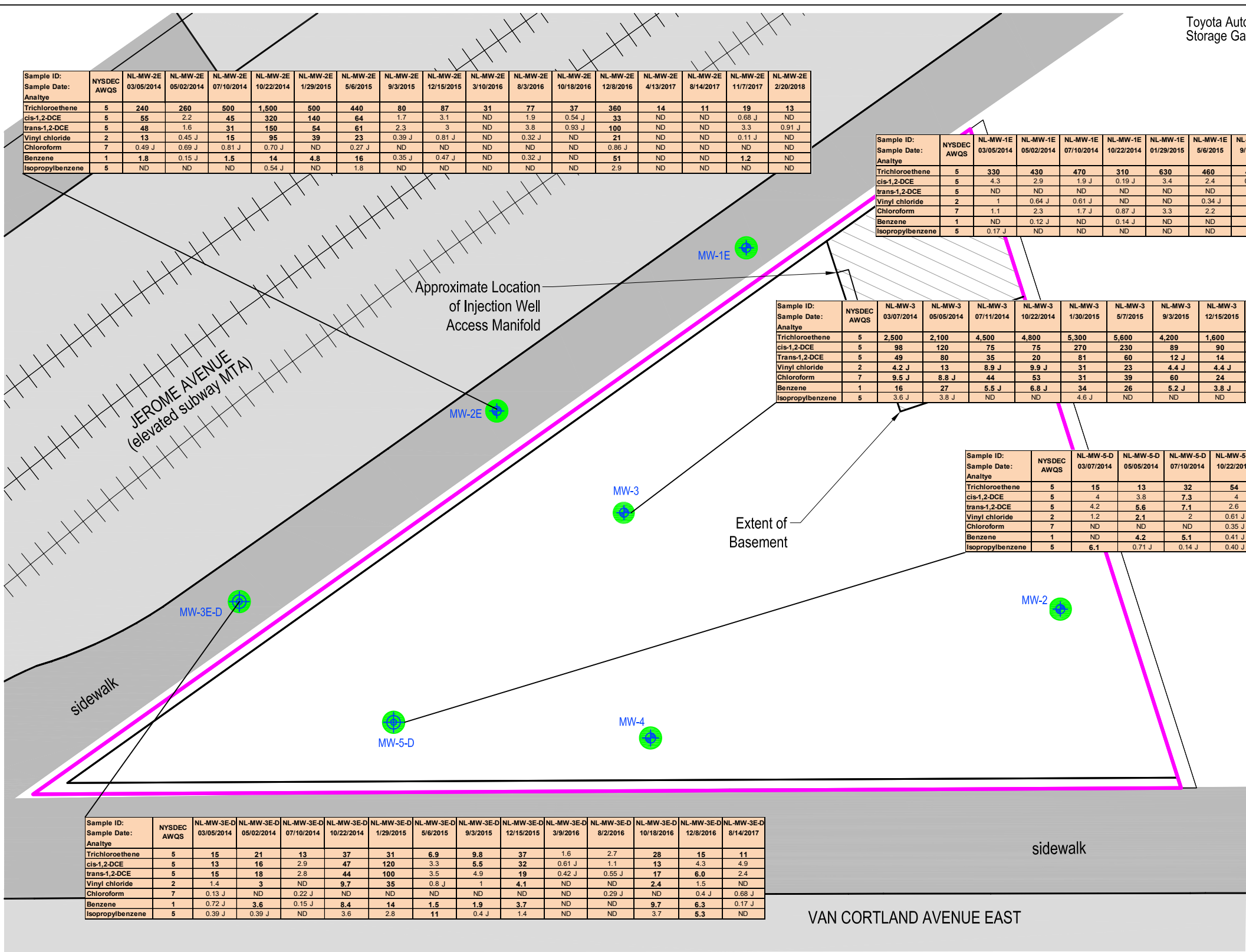
Former Nessen Lamps Site
3200 Jerome Avenue
Bronx, New York



440 Park Avenue South, New York, NY 10016

GROUNDWATER ELEVATION CONTOUR MAP - 05/25/2018

DATE	7/27/2018
PROJECT NO.	11455
FIGURE	2



Notes:

- Elevations refer to the borough of the Bronx topographical bureau datum, which is 2.608 feet above mean sea level.
- Basemap taken from A15(Lower Floor Plan) Dated 9.20.90. Locations and Elevations of the on-site monitor wells and injection wells are based upon an updated January 8, 2013 Monitor Well Location Survey completed by Montrose Surveying Co., LLP., and subsequent surveying activities completed by DPK Consulting, LLC (revision dated July 9, 2014).

LEGEND

- PROJECT SITE BOUNDARY
- BEDROCK MONITORING WELL LOCATION
- OVERBURDEN MONITORING WELL LOCATION



NOTES:

This plan only depicts VOC exceedances of NYSDEC AWQS in groundwater samples collected since March 2014.

J: The concentration given is an estimated value
ND: Not Detected

Exceedances of NYSDEC AWQS are highlighted in bold font.

GROUNDWATER

NYSDEC Class GA Ambient Water Quality Standards, Type: Health (Water Source)
NYSDEC Water Quality Standards listed in Technical And Operational Guidance Series 1.1.1

Concentrations reported in micrograms per liter (µg/l) or parts per billion (ppb)

Duplicate samples collected as part of previous sampling events are not displayed on this figure.

Sample Date Sample ID number

Sample ID:	NYSDEC AWQS	NL-MW-3 4/13/2017	NL-MW-3 8/14/2017	NL-MW-3 11/7/2017	NL-MW-3 2/20/2018	NL-MW-3 5/25/2018
Sample Date:						
Analyte						
Trichloroethene	5	1,300	1,700	1,100	1,100	940
cis-1,2-DCE	5	45	54	40	36	29
Trans-1,2-DCE	5	11	9.3	7.1	8	5.7

Concentrations reported in micrograms per Liter (µg/L) or parts per billion (ppb)

Latest round of groundwater monitoring results reported to NYSDEC



440 Park Avenue South, New York, NY 10016

Former Nessen Lamps Site
3200 Jerome Avenue
Bronx, New York

BASELINE AND POST-REMEDATION GROUNDWATER QUALITY

DATE

7/27/2018

PROJECT NO.

11455

FIGURE

3

APPENDIX A

Date	Time	Site	Data ID	Unit ID	Temp °C	DO mg/L	SPC-mS/cm	C-mS/cm	pH	ORP mV	NTU
5/25/2018	10:10:15	3200 jerome	mw 3	YSI Pro DSS	19.7	7.72	2.54	2.282	7.28	302.6	118.2
5/25/2018	10:15:15	3200 jerome	mw 3	YSI Pro DSS	18.3	2.26	2.552	2.223	7.14	299.3	114.7
5/25/2018	10:20:15	3200 jerome	mw 3	YSI Pro DSS	17.8	1.96	2.552	2.201	7.06	274.2	112.8
5/25/2018	10:25:15	3200 jerome	mw 3	YSI Pro DSS	17.6	1.44	2.552	2.192	7	157.4	110.3
5/25/2018	10:30:15	3200 jerome	mw 3	YSI Pro DSS	17.5	0.9	2.546	2.182	6.96	101	111.3
5/25/2018	10:35:15	3200 jerome	mw 3	YSI Pro DSS	18	1.27	2.545	2.206	6.95	93.4	109.9
5/25/2018	10:40:15	3200 jerome	mw 3	YSI Pro DSS	18.2	0.68	2.554	2.222	6.96	73.5	110.6
5/25/2018	10:45:15	3200 jerome	mw 3	YSI Pro DSS	18.2	0.46	2.566	2.233	6.97	57.2	110
5/25/2018	10:50:14	3200 jerome	mw 3	YSI Pro DSS	18.2	0.5	2.585	2.25	6.97	47.4	66.8
5/25/2018	10:55:14	3200 jerome	mw 3	YSI Pro DSS	18	0.43	2.602	2.254	6.97	39.5	68.5
5/25/2018	11:00:14	3200 jerome	mw 3	YSI Pro DSS	18	0.31	2.606	2.258	6.96	36.4	73.1
5/25/2018	11:05:14	3200 jerome	mw 3	YSI Pro DSS	18	0.25	2.607	2.258	6.96	32.2	77.9
5/25/2018	11:10:14	3200 jerome	mw 3	YSI Pro DSS	18	0.21	2.613	2.263	6.96	28.8	84.7
5/25/2018	11:15:14	3200 jerome	mw 3	YSI Pro DSS	18.1	0.37	2.618	2.271	6.95	24.3	8.9
5/25/2018	11:20:14	3200 jerome	mw 3	YSI Pro DSS	18.1	0.24	2.621	2.275	6.95	21.9	7.8
5/25/2018	11:25:14	3200 jerome	mw 3	YSI Pro DSS	18.1	0.18	2.626	2.28	6.95	20.1	9

APPENDIX B

DETAILED SYSTEM MONITORING INSPECTION FORM
FORMER NESSEN LAMPS SITE
3200 Jerome Avenue, Bronx, New York

Inspector Name(s): M. Jepsen / T. McClintock		Date: 5/25/2018	
Time IN: 13:00		Time OUT: 15:30	
General			
Weather:	Temperature (°F):	Barometric Pressure:	Ambient Air PID (ppm):
Sunny	86	29.96 in. Hg	ND (outdoor), ND (1st Floor), ND (Basement)
When was the last rain event? > 3 days			
Is the blower currently operating?			
Yes			
If no, please list reason/alarm condition:			
Any evidence of system tampering, vandalism or damage in the basement?			
No			
Any evidence of system tampering, vandalism or damage to the exhaust stack (view from 1st, 2nd floors, and exterior)?			
No			
Were all cleanout/sampling port caps securely attached prior to system testing?			
Yes			
If no, list location and contact Project Manager/Project Director.			
Is the concrete floor slab overlying all of the SSDS pits and piping runs intact?			
Yes, except minor superficial cracking observed on outskirts of SSDS pit #7 in basement			
If no, list location and contact Project Manager/Project Director.			
SSDS and SVE Operations			
VFD Setting: 35 Hz			
System Temperatures ¹			
T-101; Pre-Blower Temperature (°F): 74 °F	T-102; Post-Blower Temperature(°F): 83 °F	TSH-102 (on screen) ;Enclosure Temperature (°F): <104 °F	
Condensate in Header (inches): ND	Condensate in 55-gallon drum (gallons): ND ²	Transfer Pump Working? Yes	
VI-110; Pre-Filter Pressure (inches H ₂ O): -14.5 " VI-101; Post-Filter Pressure (inches H ₂ O): 14.015 "	Vaccum Loss Across Blower (inches H ₂ O): 0.485³ Notable Change since last inspection?: No	Basement fan working? Yes	
Notes:			
1. Normal system temperatures are <125°F for post-blower vapor and <104°F for internal temperature blower enclosure.			
2. One 55-gallon drum used for purged groundwater is staged securely in the basement. All water in drum came from groundwater purging.			
3. Gauge for Pre-Blower subject to slight deviations for vaccum reading.			
PID - Photoionization Detector		ppm - parts per million	

DETAILED SYSTEM MONITORING INSPECTION FORM
FORMER NESSEN LAMPS SITE
3200 Jerome Avenue, Bronx, New York

SSDS and SVE Operations						
Sample Identification	Sample Location	Pressure Reading ³ in. H ₂ O	Magnehelic Gauge ⁴ in. H ₂ O	Air Flow Reading ⁴ cfm	PID Reading ⁵ ppm	Butterfly Valve Position from Closed
SSDS-8	Basement Manifold ¹	-1.022	0.035	46	0.1	2
SSDS-6	Basement Manifold ¹	-1.600	0.075	67	0.1	2
SSDS-5	Basement Manifold ¹	-1.032	0.03	43	0.1	2
SSDS-4	Basement Manifold ¹	-1.537	0.025	39	0.1	2-3
SSDS-3	Basement Manifold ¹	-1.837	0.055	58	0.1	2-3
SSDS-2	Basement Manifold ¹	-1.738	0.035	46	0.1	2
SSDS-1	Basement Manifold ¹	-1.423	0.04	46	ND	2
SVE-1	Basement Manifold ¹	-12.296	0.005	17	21.7	8
SSDS-7	Basement Manifold ¹	-3.989	0.02	35	0.1	2
Ambient Air in Basement	Basement	NA	NA	NA	ND	NA
Pre-Blower Pressure (Combined)	Basement	-14.5	NA	NA	0.1	NA
Post-Blower (Stack) Pressure (Combined)	Basement	0.113	NA	NA	ND	NA
MP-1	First Floor ²	-1.001	NA	NA	NA	NA
MP-2	First Floor ²	-0.118	NA	NA	NA	NA
MP-3	First Floor ²	-0.018	NA	NA	NA	NA
MP-4	First Floor ²	-0.014	NA	NA	NA	NA

Comments:

Notes:

1. System vacuum points located on the basement manifold are listed in as-built order from south to north, (viewed left to right when facing western basement wall.)

2. Monitoring point locations (see Figure 19 of the Site Management Plan):

MP-1: North central portion of first floor

MP-2: Southeastern portion of first floor; adjacent to entrance stairway

MP-3: Western portion of first floor

MP-4: South central portion of first floor

3. Under current VFD setting (35 Hz), anticipated system vacuums range between +/- 1.0 in. H₂O at sample locations SSDS-1 through SSDS-7, +/- 1.0 in H₂O at sample location SSDS-8, and +/- 10-15 in. H₂O at SVE-1. A minimum of -0.004 in. H₂O at monitoring points MP-1 through MP-4. If observations are confirmed to be outside of this range, inform emergency contacts and prepare corrective action plan.

4. Air Flow Rate Calculation used to determine air flow in CFM based on gauge reading. During operations of the VFD at 35 Hz, normal system flow rates range between approximately 30 and 100 cfm sample locations SSDS-1 through SSDS-8, and between 10 to 30 cfm for SVE-1 during system operation without carbon units attached. Both carbon units were removed from system in Q12016. If observations are confirmed to be outside of this range, inform emergency contacts immediately.

5. Peristaltic pump and tedlar bags required to collect vapor samples.

NS - Not sampled

in. H₂O - inches of water

cfm - cubic feet per minute

PID - Photoionization Detector

ppm - parts per million

GAC - granular activated carbon

NA - not applicable

DETAILED SYSTEM MONITORING INSPECTION FORM
FORMER NESSEN LAMPS SITE
3200 Jerome Avenue, Bronx, New York

System Vapor Samples: None collected this quarter					
Sample Location	Sample ID	Sample Date	Start Time	End Time	Notes
SSDS-8					
SSDS-6					
SSDS-5					
SSDS-4					
SSDS-3					
SSDS-2					
SSDS-1					
SVE-1					
SSDS-7					
Total Influent					
Duplicate					
Total Effluent (Stack)					
Notes:					

Emergency Contact Information		
Name	Title	Contact Number
Marc Godick	AKRF Project Director	914-922-2356 (office) 917-991-4030 (cell)
Dustin Kapson	AKRF Project Manager	646-388-9767 (office) 646-823-5144 (cell)
James Rinzler	Owner's Representative	212-685-6500 (office)

APPENDIX C

ANALYTICAL REPORT

Job Number: 460-157038-1

Job Description: 3200 Jerome Ave

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, NY 10016
Attention: Mr. Mark Jepsen



Approved for release.
Thomas A Chupela
Project Management Assistant I
6/4/2018 1:51 PM

Designee for
Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
06/04/2018

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Edison Project Manager.

TestAmerica Edison Certifications and Approvals: Connecticut: CTDOH #PH-0200, New Jersey: NJDEP (NELAP) #12028, New York: NYDOH (NELAP) #11452, NYDOH (ELAP) #11452, Pennsylvania: PADEP (NELAP) 68-00522 and Rhode Island: RIDOH LA000132

TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



Job Number: 460-157038-1

Job Description: 3200 Jerome Ave

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Approved for release.
Thomas A. Chupela
Project Management Assistant I
6/4/2018 1:51 PM

Designee for
Melissa Haas

Table of Contents

Cover Title Page	1
Data Summaries	7
Report Narrative	7
Sample Summary	10
Detection Summary	11
Method Summary	13
Client Sample Results	14
Surrogate Summary	21
QC Sample Results	22
Definitions	36
QC Association	38
Chronicle	41
Certification Summary	43
Organic Sample Data	44
GC/MS VOA	44
8260C	44
8260C QC Summary	45
8260C Sample Data	65
Standards Data	115
8260C ICAL Data	115
8260C CCAL Data	230
Raw QC Data	250
8260C Tune Data	250
8260C Blank Data	260
8260C LCS/LCSD Data	270
8260C MS/MSD Data	291

Table of Contents

8260C Run Logs	305
8260C Prep Data	308
GC VOA	311
Method RSK-175	311
Method RSK-175 QC Summary	312
Method RSK-175 Sample Data	316
Standards Data	325
Method RSK-175 ICAL Data	325
Method RSK-175 CCAL Data	347
Raw QC Data	357
Method RSK-175 Blank Data	357
Method RSK-175 LCS/LCSD Data	360
Method RSK-175 MS/MSD Data	363
Method RSK-175 Run Logs	369
HPLC/IC	372
300_ORGFM_28D	372
300_ORGFM_28D QC Summary	373
300_ORGFM_28D Sample Data	379
Standards Data	391
300_ORGFM_28D ICAL Data	391
300_ORGFM_28D CCAL Data	406
Raw QC Data	438
300_ORGFM_28D Blank Data	438
300_ORGFM_28D LCS/LCSD Data	446
300_ORGFM_28D MS/MSD Data	458
300_ORGFM_28D Duplicate/Triplicate Data	464

Table of Contents

300_ORGFM_28D Run Logs	467
Inorganic Sample Data	472
Metals Data	472
Met Cover Page	473
Met Sample Data	474
Met QC Data	480
Met ICV/CCV	480
Met Blanks	484
Met ICSA/ICSAB	489
Met MS/MSD/PDS	493
Met Dup/Trip	497
Met LCS/LCSD	499
Met Serial Dilution	501
Met MDL	502
Met Linear Ranges	506
Met Preparation Log	508
Met Analysis Run Log	510
Met ICP/MS Int Stds	521
Met Raw Data	523
Met Prep Data	1407
General Chemistry Data	1410
Gen Chem Cover Page	1411
Gen Chem Sample Data	1412
Gen Chem QC Data	1418
Gen Chem ICV/CCV	1418
Gen Chem Blanks	1419

Table of Contents

Gen Chem MS/MSD/PDS	1420
Gen Chem Duplicates	1422
Gen Chem LCS/LCSD	1423
Gen Chem MDL	1425
Gen Chem Analysis Run Log	1431
Gen Chem Raw Data	1435
Gen Chem Prep Data	1441
Shipping and Receiving Documents	1445
Client Chain of Custody	1446
Sample Receipt Checklist	1449

CASE NARRATIVE

Client: AKRF Inc

Project: 3200 Jerome Ave

Report Number: 460-157038-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

RECEIPT

The samples were received on 5/25/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The number of containers for the field blank on COC lists 12 but 10 were received.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2), NL-FB-20180525 (460-157038-3) and NL-TB-20180525 (460-157038-4) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 06/01/2018.

The continuing calibration verification (CCV) associated with batch 460-524327 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-524327 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Trichloroethene failed the recovery criteria low for the MS of sample NL-MW-3-20180525MS (460-157038-1) in batch 460-524327. Bromomethane failed the recovery criteria high.

For the MSD of sample NL-MW-3-20180525MSD (460-157038-1) in batch 460-524327, Chloromethane and Trichloroethene failed the recovery criteria low. Bromomethane failed the recovery criteria high. Also, Chloromethane exceeded the RPD limit.

Refer to the QC report for details.

Samples NL-MW-3-20180525 (460-157038-1)[5X] and NL-MW-DUP-20180525 (460-157038-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED GASES

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were

analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 05/31/2018.

Due to the high concentration of the analyte Methane, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-417210 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Methane failed the recovery criteria high for the MS of sample NL-MW-3-20180525MS (460-157038-1) in batch 480-417210.

Refer to the QC report for details.

Samples NL-MW-3-20180525 (460-157038-1)[11X] and NL-MW-DUP-20180525 (460-157038-2)[11X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the dissolved gases analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for dissolved metals in accordance with EPA Method 200.7 (ICP). The samples were prepared on 05/31/2018 and analyzed on 06/01/2018.

No difficulties were encountered during the dissolved metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for total recoverable metals in accordance with EPA Method 200.7 (ICP). The samples were prepared on 05/30/2018 and analyzed on 06/01/2018.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

ALKALINITY

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 06/01/2018.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

ANIONS

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for anions in accordance with EPA Method 300_ORGFM_28D Anions by Ion Chromatograph. The samples were analyzed on 05/27/2018.

Due to the high concentration of Sulfate and Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 460-522878 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Refer to the QC report for details.

Samples NL-MW-3-20180525 (460-157038-1)[160X], NL-MW-DUP-20180525 (460-157038-2)[100X] and NL-FB-20180525 (460-157038-3)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

FERROUS IRON

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for ferrous iron in accordance with SM 3500 FE D. The samples were analyzed on 05/30/2018.

Ferrous Iron failed the recovery criteria low for the MS of sample NL-MW-3-20180525MS (460-157038-1) in batch 460-523698.

Ferrous Iron failed the recovery criteria low for the MSD of sample NL-MW-3-20180525MSD (460-157038-1) in batch 460-523698.

Refer to the QC report for details.

No other difficulties were encountered during the ferrous iron analysis.

All other quality control parameters were within the acceptance limits.

SULFIDE

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for sulfide in accordance with SM 4500 S2 F. The samples were analyzed on 05/31/2018.

No difficulties were encountered during the sulfide analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-157038-1	NL-MW-3-20180525	Water	05/25/18 11:30	05/25/18 18:40
460-157038-2	NL-MW-DUP-20180525	Water	05/25/18 11:50	05/25/18 18:40
460-157038-3	NL-FB-20180525	Water	05/25/18 12:00	05/25/18 18:40
460-157038-4	NL-TB-20180525	Water	05/25/18 00:00	05/25/18 18:40

Detection Summary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-MW-3-20180525

Lab Sample ID: 460-157038-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.0	J	5.0	0.30	ug/L	5		8260C	Total/NA
Methylene Chloride	1.2	J	5.0	1.1	ug/L	5		8260C	Total/NA
Acetone	14	J	25	5.4	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene	5.7		5.0	0.90	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	29		5.0	1.3	ug/L	5		8260C	Total/NA
Chloroform	14		5.0	1.1	ug/L	5		8260C	Total/NA
Trichloroethene	940		5.0	1.1	ug/L	5		8260C	Total/NA
Benzene	6.0		5.0	0.45	ug/L	5		8260C	Total/NA
Tetrachloroethene	1.2	J	5.0	0.60	ug/L	5		8260C	Total/NA
Ethylbenzene	5.2		5.0	1.5	ug/L	5		8260C	Total/NA
MTBE	0.91	J	5.0	0.65	ug/L	5		8260C	Total/NA
Cyclohexane	24		5.0	1.3	ug/L	5		8260C	Total/NA
Isopropylbenzene	3.3	J	5.0	1.6	ug/L	5		8260C	Total/NA
Methylcyclohexane	9.6		5.0	1.1	ug/L	5		8260C	Total/NA
Methane	360		44	11	ug/L	11		RSK-175	Total/NA
Sulfate - DL2	320		96.0	53.1	mg/L	160		300.0	Total/NA
Chloride - DL2	401		19.2	12.5	mg/L	160		300.0	Total/NA
Iron	5960		150	111	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	268000		5000	846	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	1430		15.0	5.0	ug/L	1		200.7 Rev 4.4	Dissolved
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	374		5.0	5.0	mg/L	1		SM 2320B	Total/NA

Client Sample ID: NL-MW-DUP-20180525

Lab Sample ID: 460-157038-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.91	J	5.0	0.30	ug/L	5		8260C	Total/NA
Methylene Chloride	1.3	J	5.0	1.1	ug/L	5		8260C	Total/NA
Acetone	13	J	25	5.4	ug/L	5		8260C	Total/NA
trans-1,2-Dichloroethene	4.6	J	5.0	0.90	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	25		5.0	1.3	ug/L	5		8260C	Total/NA
Chloroform	12		5.0	1.1	ug/L	5		8260C	Total/NA
Trichloroethene	760		5.0	1.1	ug/L	5		8260C	Total/NA
Benzene	4.8	J	5.0	0.45	ug/L	5		8260C	Total/NA
Tetrachloroethene	1.0	J	5.0	0.60	ug/L	5		8260C	Total/NA
Ethylbenzene	3.3	J	5.0	1.5	ug/L	5		8260C	Total/NA
MTBE	0.76	J	5.0	0.65	ug/L	5		8260C	Total/NA
Cyclohexane	16		5.0	1.3	ug/L	5		8260C	Total/NA
Isopropylbenzene	2.2	J	5.0	1.6	ug/L	5		8260C	Total/NA
Methylcyclohexane	5.4		5.0	1.1	ug/L	5		8260C	Total/NA
Methane	450		44	11	ug/L	11		RSK-175	Total/NA
Sulfate - DL2	323		60.0	33.2	mg/L	100		300.0	Total/NA
Chloride - DL2	425		12.0	7.80	mg/L	100		300.0	Total/NA
Iron	7380		150	111	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	272000		5000	846	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	1510		15.0	5.0	ug/L	1		200.7 Rev 4.4	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-MW-DUP-20180525 (Continued)

Lab Sample ID: 460-157038-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity	346		5.0	5.0	mg/L	1		SM 2320B	Total/NA

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.89	J	1.0	0.21	ug/L	1		8260C	Total/NA
Chloride - DL	1.26		1.20	0.78	mg/L	10		300.0	Total/NA

Client Sample ID: NL-TB-20180525

Lab Sample ID: 460-157038-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.6		1.0	0.21	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL EDI
200.7 Rev 4.4	Metals (ICP)	EPA	TAL EDI
SM 2320B	Alkalinity	SM	TAL EDI
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL EDI
SM 4500 S2 F	Sulfide, Total	SM	TAL EDI
200.7	Preparation, Total Recoverable Metals	EPA	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
FILTRATION	Sample Filtration	None	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-MW-3-20180525

Lab Sample ID: 460-157038-1

Date Collected: 05/25/18 11:30

Matrix: Water

Date Received: 05/25/18 18:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.1	U	5.0	1.1	ug/L			06/01/18 18:56	5
Bromomethane	0.90	U *	5.0	0.90	ug/L			06/01/18 18:56	5
Vinyl chloride	1.0	J	5.0	0.30	ug/L			06/01/18 18:56	5
Chloroethane	1.9	U	5.0	1.9	ug/L			06/01/18 18:56	5
Methylene Chloride	1.2	J	5.0	1.1	ug/L			06/01/18 18:56	5
Acetone	14	J	25	5.4	ug/L			06/01/18 18:56	5
Carbon disulfide	1.1	U	5.0	1.1	ug/L			06/01/18 18:56	5
Trichlorofluoromethane	0.75	U	5.0	0.75	ug/L			06/01/18 18:56	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			06/01/18 18:56	5
1,1-Dichloroethane	1.2	U	5.0	1.2	ug/L			06/01/18 18:56	5
trans-1,2-Dichloroethene	5.7		5.0	0.90	ug/L			06/01/18 18:56	5
cis-1,2-Dichloroethene	29		5.0	1.3	ug/L			06/01/18 18:56	5
Chloroform	14		5.0	1.1	ug/L			06/01/18 18:56	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			06/01/18 18:56	5
2-Butanone	11	U	25	11	ug/L			06/01/18 18:56	5
1,1,1-Trichloroethane	1.4	U	5.0	1.4	ug/L			06/01/18 18:56	5
Carbon tetrachloride	1.7	U	5.0	1.7	ug/L			06/01/18 18:56	5
Bromodichloromethane	0.75	U	5.0	0.75	ug/L			06/01/18 18:56	5
1,2-Dichloropropane	0.90	U	5.0	0.90	ug/L			06/01/18 18:56	5
cis-1,3-Dichloropropene	0.80	U	5.0	0.80	ug/L			06/01/18 18:56	5
Trichloroethene	940		5.0	1.1	ug/L			06/01/18 18:56	5
Dibromochloromethane	1.1	U	5.0	1.1	ug/L			06/01/18 18:56	5
1,1,2-Trichloroethane	0.40	U	5.0	0.40	ug/L			06/01/18 18:56	5
Benzene	6.0		5.0	0.45	ug/L			06/01/18 18:56	5
trans-1,3-Dichloropropene	0.95	U	5.0	0.95	ug/L			06/01/18 18:56	5
Bromoform	0.90	U	5.0	0.90	ug/L			06/01/18 18:56	5
4-Methyl-2-pentanone	3.2	U	25	3.2	ug/L			06/01/18 18:56	5
2-Hexanone	3.6	U	25	3.6	ug/L			06/01/18 18:56	5
Tetrachloroethene	1.2	J	5.0	0.60	ug/L			06/01/18 18:56	5
1,1,2,2-Tetrachloroethane	0.95	U	5.0	0.95	ug/L			06/01/18 18:56	5
Toluene	1.3	U	5.0	1.3	ug/L			06/01/18 18:56	5
Chlorobenzene	1.2	U	5.0	1.2	ug/L			06/01/18 18:56	5
Ethylbenzene	5.2		5.0	1.5	ug/L			06/01/18 18:56	5
Styrene	0.85	U	5.0	0.85	ug/L			06/01/18 18:56	5
Xylenes, Total	1.4	U	10	1.4	ug/L			06/01/18 18:56	5
Freon TF	1.7	U	5.0	1.7	ug/L			06/01/18 18:56	5
MTBE	0.91	J	5.0	0.65	ug/L			06/01/18 18:56	5
Cyclohexane	24		5.0	1.3	ug/L			06/01/18 18:56	5
1,2-Dibromoethane	0.95	U	5.0	0.95	ug/L			06/01/18 18:56	5
1,3-Dichlorobenzene	1.7	U	5.0	1.7	ug/L			06/01/18 18:56	5
1,4-Dichlorobenzene	1.7	U	5.0	1.7	ug/L			06/01/18 18:56	5
1,2-Dichlorobenzene	1.1	U	5.0	1.1	ug/L			06/01/18 18:56	5
Dichlorodifluoromethane	0.70	U	5.0	0.70	ug/L			06/01/18 18:56	5
1,2,4-Trichlorobenzene	1.4	U	5.0	1.4	ug/L			06/01/18 18:56	5
1,2-Dibromo-3-Chloropropane	1.2	U	5.0	1.2	ug/L			06/01/18 18:56	5
Isopropylbenzene	3.3	J	5.0	1.6	ug/L			06/01/18 18:56	5
Methylcyclohexane	9.6		5.0	1.1	ug/L			06/01/18 18:56	5

Client Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-MW-3-20180525

Date Collected: 05/25/18 11:30

Date Received: 05/25/18 18:40

Lab Sample ID: 460-157038-1

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		74 - 132		06/01/18 18:56	5
Toluene-d8 (Surr)	96		80 - 120		06/01/18 18:56	5
Bromofluorobenzene	115		77 - 124		06/01/18 18:56	5
Dibromofluoromethane (Surr)	102		72 - 131		06/01/18 18:56	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	360		44	11	ug/L			05/31/18 13:36	11

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	320		96.0	53.1	mg/L			05/27/18 14:34	160
Chloride	401		19.2	12.5	mg/L			05/27/18 14:34	160

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5960		150	111	ug/L		05/30/18 20:15	06/01/18 05:05	1
Sodium	268000		5000	846	ug/L		05/30/18 20:15	06/01/18 05:05	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1430		15.0	5.0	ug/L		05/31/18 02:30	06/01/18 01:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.056	U HF	0.10	0.056	mg/L			05/30/18 16:56	1
Sulfide	0.58	U	1.0	0.58	mg/L			05/31/18 15:51	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			06/01/18 12:15	1
Alkalinity	374		5.0	5.0	mg/L			06/01/18 12:15	1

Client Sample ID: NL-MW-DUP-20180525

Date Collected: 05/25/18 11:50

Date Received: 05/25/18 18:40

Lab Sample ID: 460-157038-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.1	U	5.0	1.1	ug/L			06/01/18 19:24	5
Bromomethane	0.90	U *	5.0	0.90	ug/L			06/01/18 19:24	5
Vinyl chloride	0.91	J	5.0	0.30	ug/L			06/01/18 19:24	5
Chloroethane	1.9	U	5.0	1.9	ug/L			06/01/18 19:24	5
Methylene Chloride	1.3	J	5.0	1.1	ug/L			06/01/18 19:24	5
Acetone	13	J	25	5.4	ug/L			06/01/18 19:24	5
Carbon disulfide	1.1	U	5.0	1.1	ug/L			06/01/18 19:24	5
Trichlorofluoromethane	0.75	U	5.0	0.75	ug/L			06/01/18 19:24	5
1,1-Dichloroethene	1.7	U	5.0	1.7	ug/L			06/01/18 19:24	5
1,1-Dichloroethane	1.2	U	5.0	1.2	ug/L			06/01/18 19:24	5
trans-1,2-Dichloroethene	4.6	J	5.0	0.90	ug/L			06/01/18 19:24	5
cis-1,2-Dichloroethene	25		5.0	1.3	ug/L			06/01/18 19:24	5
Chloroform	12		5.0	1.1	ug/L			06/01/18 19:24	5
1,2-Dichloroethane	1.3	U	5.0	1.3	ug/L			06/01/18 19:24	5

TestAmerica Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-MW-DUP-20180525

Lab Sample ID: 460-157038-2

Date Collected: 05/25/18 11:50

Matrix: Water

Date Received: 05/25/18 18:40

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone	11	U	25	11	ug/L			06/01/18 19:24	5
1,1,1-Trichloroethane	1.4	U	5.0	1.4	ug/L			06/01/18 19:24	5
Carbon tetrachloride	1.7	U	5.0	1.7	ug/L			06/01/18 19:24	5
Bromodichloromethane	0.75	U	5.0	0.75	ug/L			06/01/18 19:24	5
1,2-Dichloropropane	0.90	U	5.0	0.90	ug/L			06/01/18 19:24	5
cis-1,3-Dichloropropene	0.80	U	5.0	0.80	ug/L			06/01/18 19:24	5
Trichloroethene	760		5.0	1.1	ug/L			06/01/18 19:24	5
Dibromochloromethane	1.1	U	5.0	1.1	ug/L			06/01/18 19:24	5
1,1,2-Trichloroethane	0.40	U	5.0	0.40	ug/L			06/01/18 19:24	5
Benzene	4.8 J		5.0	0.45	ug/L			06/01/18 19:24	5
trans-1,3-Dichloropropene	0.95	U	5.0	0.95	ug/L			06/01/18 19:24	5
Bromoform	0.90	U	5.0	0.90	ug/L			06/01/18 19:24	5
4-Methyl-2-pentanone	3.2	U	25	3.2	ug/L			06/01/18 19:24	5
2-Hexanone	3.6	U	25	3.6	ug/L			06/01/18 19:24	5
Tetrachloroethene	1.0 J		5.0	0.60	ug/L			06/01/18 19:24	5
1,1,2,2-Tetrachloroethane	0.95	U	5.0	0.95	ug/L			06/01/18 19:24	5
Toluene	1.3	U	5.0	1.3	ug/L			06/01/18 19:24	5
Chlorobenzene	1.2	U	5.0	1.2	ug/L			06/01/18 19:24	5
Ethylbenzene	3.3 J		5.0	1.5	ug/L			06/01/18 19:24	5
Styrene	0.85	U	5.0	0.85	ug/L			06/01/18 19:24	5
Xylenes, Total	1.4	U	10	1.4	ug/L			06/01/18 19:24	5
Freon TF	1.7	U	5.0	1.7	ug/L			06/01/18 19:24	5
MTBE	0.76 J		5.0	0.65	ug/L			06/01/18 19:24	5
Cyclohexane	16		5.0	1.3	ug/L			06/01/18 19:24	5
1,2-Dibromoethane	0.95	U	5.0	0.95	ug/L			06/01/18 19:24	5
1,3-Dichlorobenzene	1.7	U	5.0	1.7	ug/L			06/01/18 19:24	5
1,4-Dichlorobenzene	1.7	U	5.0	1.7	ug/L			06/01/18 19:24	5
1,2-Dichlorobenzene	1.1	U	5.0	1.1	ug/L			06/01/18 19:24	5
Dichlorodifluoromethane	0.70	U	5.0	0.70	ug/L			06/01/18 19:24	5
1,2,4-Trichlorobenzene	1.4	U	5.0	1.4	ug/L			06/01/18 19:24	5
1,2-Dibromo-3-Chloropropane	1.2	U	5.0	1.2	ug/L			06/01/18 19:24	5
Isopropylbenzene	2.2 J		5.0	1.6	ug/L			06/01/18 19:24	5
Methylcyclohexane	5.4		5.0	1.1	ug/L			06/01/18 19:24	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		74 - 132		06/01/18 19:24	5
Toluene-d8 (Surr)	89		80 - 120		06/01/18 19:24	5
Bromofluorobenzene	108		77 - 124		06/01/18 19:24	5
Dibromofluoromethane (Surr)	95		72 - 131		06/01/18 19:24	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	450		44	11	ug/L			05/31/18 17:58	11

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	323		60.0	33.2	mg/L			05/27/18 15:45	100
Chloride	425		12.0	7.80	mg/L			05/27/18 15:45	100

TestAmerica Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-MW-DUP-20180525

Lab Sample ID: 460-157038-2

Date Collected: 05/25/18 11:50

Matrix: Water

Date Received: 05/25/18 18:40

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7380		150	111	ug/L		05/30/18 20:15	06/01/18 05:21	1
Sodium	272000		5000	846	ug/L		05/30/18 20:15	06/01/18 05:21	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	1510		15.0	5.0	ug/L		05/31/18 02:30	06/01/18 02:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.056	U HF	0.10	0.056	mg/L			05/30/18 16:56	1
Sulfide	0.58	U	1.0	0.58	mg/L			05/31/18 15:51	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			06/01/18 12:34	1
Alkalinity	346		5.0	5.0	mg/L			06/01/18 12:34	1

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Date Collected: 05/25/18 12:00

Matrix: Water

Date Received: 05/25/18 18:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.22	U	1.0	0.22	ug/L			06/01/18 04:12	1
Bromomethane	0.18	U	1.0	0.18	ug/L			06/01/18 04:12	1
Vinyl chloride	0.060	U	1.0	0.060	ug/L			06/01/18 04:12	1
Chloroethane	0.37	U	1.0	0.37	ug/L			06/01/18 04:12	1
Methylene Chloride	0.89	J	1.0	0.21	ug/L			06/01/18 04:12	1
Acetone	1.1	U	5.0	1.1	ug/L			06/01/18 04:12	1
Carbon disulfide	0.22	U	1.0	0.22	ug/L			06/01/18 04:12	1
Trichlorofluoromethane	0.15	U	1.0	0.15	ug/L			06/01/18 04:12	1
1,1-Dichloroethene	0.34	U	1.0	0.34	ug/L			06/01/18 04:12	1
1,1-Dichloroethane	0.24	U	1.0	0.24	ug/L			06/01/18 04:12	1
trans-1,2-Dichloroethene	0.18	U	1.0	0.18	ug/L			06/01/18 04:12	1
cis-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			06/01/18 04:12	1
Chloroform	0.22	U	1.0	0.22	ug/L			06/01/18 04:12	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			06/01/18 04:12	1
2-Butanone	2.2	U	5.0	2.2	ug/L			06/01/18 04:12	1
1,1,1-Trichloroethane	0.28	U	1.0	0.28	ug/L			06/01/18 04:12	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			06/01/18 04:12	1
Bromodichloromethane	0.15	U	1.0	0.15	ug/L			06/01/18 04:12	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/01/18 04:12	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/01/18 04:12	1
Trichloroethene	0.22	U	1.0	0.22	ug/L			06/01/18 04:12	1
Dibromochloromethane	0.22	U	1.0	0.22	ug/L			06/01/18 04:12	1
1,1,2-Trichloroethane	0.080	U	1.0	0.080	ug/L			06/01/18 04:12	1
Benzene	0.090	U	1.0	0.090	ug/L			06/01/18 04:12	1
trans-1,3-Dichloropropene	0.19	U	1.0	0.19	ug/L			06/01/18 04:12	1
Bromoform	0.18	U	1.0	0.18	ug/L			06/01/18 04:12	1
4-Methyl-2-pentanone	0.63	U	5.0	0.63	ug/L			06/01/18 04:12	1
2-Hexanone	0.72	U	5.0	0.72	ug/L			06/01/18 04:12	1
Tetrachloroethene	0.12	U	1.0	0.12	ug/L			06/01/18 04:12	1

TestAmerica Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Date Collected: 05/25/18 12:00

Matrix: Water

Date Received: 05/25/18 18:40

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19	ug/L			06/01/18 04:12	1
Toluene	0.25	U	1.0	0.25	ug/L			06/01/18 04:12	1
Chlorobenzene	0.24	U	1.0	0.24	ug/L			06/01/18 04:12	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			06/01/18 04:12	1
Styrene	0.17	U	1.0	0.17	ug/L			06/01/18 04:12	1
Xylenes, Total	0.28	U	2.0	0.28	ug/L			06/01/18 04:12	1
Freon TF	0.34	U	1.0	0.34	ug/L			06/01/18 04:12	1
MTBE	0.13	U	1.0	0.13	ug/L			06/01/18 04:12	1
Cyclohexane	0.26	U	1.0	0.26	ug/L			06/01/18 04:12	1
1,2-Dibromoethane	0.19	U	1.0	0.19	ug/L			06/01/18 04:12	1
1,3-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			06/01/18 04:12	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			06/01/18 04:12	1
1,2-Dichlorobenzene	0.22	U	1.0	0.22	ug/L			06/01/18 04:12	1
Dichlorodifluoromethane	0.14	U	1.0	0.14	ug/L			06/01/18 04:12	1
1,2,4-Trichlorobenzene	0.27	U	1.0	0.27	ug/L			06/01/18 04:12	1
1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23	ug/L			06/01/18 04:12	1
Isopropylbenzene	0.32	U	1.0	0.32	ug/L			06/01/18 04:12	1
Methylcyclohexane	0.22	U	1.0	0.22	ug/L			06/01/18 04:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		74 - 132		06/01/18 04:12	1
Toluene-d8 (Surr)	96		80 - 120		06/01/18 04:12	1
Bromofluorobenzene	113		77 - 124		06/01/18 04:12	1
Dibromofluoromethane (Surr)	104		72 - 131		06/01/18 04:12	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.0	U	4.0	1.0	ug/L			05/31/18 14:46	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.33	U	0.60	0.33	mg/L			05/27/18 16:32	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.26		1.20	0.78	mg/L			05/27/18 08:42	10

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	111	U	150	111	ug/L		05/30/18 20:15	06/01/18 05:25	1
Sodium	846	U	5000	846	ug/L		05/30/18 20:15	06/01/18 05:25	1

Method: 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.0	U	15.0	5.0	ug/L		05/31/18 02:30	06/01/18 02:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.056	U HF	0.10	0.056	mg/L			05/30/18 16:56	1
Sulfide	0.58	U	1.0	0.58	mg/L			05/31/18 15:51	1

TestAmerica Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Date Collected: 05/25/18 12:00

Matrix: Water

Date Received: 05/25/18 18:40

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			06/01/18 12:41	1
Alkalinity	5.0	U	5.0	5.0	mg/L			06/01/18 12:41	1

Client Sample ID: NL-TB-20180525

Lab Sample ID: 460-157038-4

Date Collected: 05/25/18 00:00

Matrix: Water

Date Received: 05/25/18 18:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.22	U	1.0	0.22	ug/L			06/01/18 03:16	1
Bromomethane	0.18	U	1.0	0.18	ug/L			06/01/18 03:16	1
Vinyl chloride	0.060	U	1.0	0.060	ug/L			06/01/18 03:16	1
Chloroethane	0.37	U	1.0	0.37	ug/L			06/01/18 03:16	1
Methylene Chloride	3.6		1.0	0.21	ug/L			06/01/18 03:16	1
Acetone	1.1	U	5.0	1.1	ug/L			06/01/18 03:16	1
Carbon disulfide	0.22	U	1.0	0.22	ug/L			06/01/18 03:16	1
Trichlorofluoromethane	0.15	U	1.0	0.15	ug/L			06/01/18 03:16	1
1,1-Dichloroethene	0.34	U	1.0	0.34	ug/L			06/01/18 03:16	1
1,1-Dichloroethane	0.24	U	1.0	0.24	ug/L			06/01/18 03:16	1
trans-1,2-Dichloroethene	0.18	U	1.0	0.18	ug/L			06/01/18 03:16	1
cis-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			06/01/18 03:16	1
Chloroform	0.22	U	1.0	0.22	ug/L			06/01/18 03:16	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			06/01/18 03:16	1
2-Butanone	2.2	U	5.0	2.2	ug/L			06/01/18 03:16	1
1,1,1-Trichloroethane	0.28	U	1.0	0.28	ug/L			06/01/18 03:16	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			06/01/18 03:16	1
Bromodichloromethane	0.15	U	1.0	0.15	ug/L			06/01/18 03:16	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/01/18 03:16	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/01/18 03:16	1
Trichloroethene	0.22	U	1.0	0.22	ug/L			06/01/18 03:16	1
Dibromochloromethane	0.22	U	1.0	0.22	ug/L			06/01/18 03:16	1
1,1,2-Trichloroethane	0.080	U	1.0	0.080	ug/L			06/01/18 03:16	1
Benzene	0.090	U	1.0	0.090	ug/L			06/01/18 03:16	1
trans-1,3-Dichloropropene	0.19	U	1.0	0.19	ug/L			06/01/18 03:16	1
Bromoform	0.18	U	1.0	0.18	ug/L			06/01/18 03:16	1
4-Methyl-2-pentanone	0.63	U	5.0	0.63	ug/L			06/01/18 03:16	1
2-Hexanone	0.72	U	5.0	0.72	ug/L			06/01/18 03:16	1
Tetrachloroethene	0.12	U	1.0	0.12	ug/L			06/01/18 03:16	1
1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19	ug/L			06/01/18 03:16	1
Toluene	0.25	U	1.0	0.25	ug/L			06/01/18 03:16	1
Chlorobenzene	0.24	U	1.0	0.24	ug/L			06/01/18 03:16	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			06/01/18 03:16	1
Styrene	0.17	U	1.0	0.17	ug/L			06/01/18 03:16	1
Xylenes, Total	0.28	U	2.0	0.28	ug/L			06/01/18 03:16	1
Freon TF	0.34	U	1.0	0.34	ug/L			06/01/18 03:16	1
MTBE	0.13	U	1.0	0.13	ug/L			06/01/18 03:16	1
Cyclohexane	0.26	U	1.0	0.26	ug/L			06/01/18 03:16	1
1,2-Dibromoethane	0.19	U	1.0	0.19	ug/L			06/01/18 03:16	1
1,3-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			06/01/18 03:16	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			06/01/18 03:16	1
1,2-Dichlorobenzene	0.22	U	1.0	0.22	ug/L			06/01/18 03:16	1

TestAmerica Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-TB-20180525

Lab Sample ID: 460-157038-4

Date Collected: 05/25/18 00:00

Matrix: Water

Date Received: 05/25/18 18:40

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.14	U	1.0	0.14	ug/L			06/01/18 03:16	1
1,2,4-Trichlorobenzene	0.27	U	1.0	0.27	ug/L			06/01/18 03:16	1
1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23	ug/L			06/01/18 03:16	1
Isopropylbenzene	0.32	U	1.0	0.32	ug/L			06/01/18 03:16	1
Methylcyclohexane	0.22	U	1.0	0.22	ug/L			06/01/18 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		74 - 132		06/01/18 03:16	1
Toluene-d8 (Surr)	96		80 - 120		06/01/18 03:16	1
Bromofluorobenzene	115		77 - 124		06/01/18 03:16	1
Dibromofluoromethane (Surr)	104		72 - 131		06/01/18 03:16	1

Surrogate Summary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (74-132)	TOL (80-120)	BFB (77-124)	DBFM (72-131)
460-157038-1	NL-MW-3-20180525	92	96	115	102
460-157038-1 MS	NL-MW-3-20180525	83	91	113	96
460-157038-1MSD	NL-MW-3-20180525	89	96	119	103
460-157038-2	NL-MW-DUP-20180525	84	89	108	95
460-157038-3	NL-FB-20180525	91	96	113	104
460-157038-4	NL-TB-20180525	92	96	115	104
LCS 460-524141/4	Lab Control Sample	84	89	108	93
LCS 460-524327/3	Lab Control Sample	84	89	108	94
LCSD 460-524327/6	Lab Control Sample Dup	84	89	108	95
MB 460-524141/7	Method Blank	92	94	110	101
MB 460-524327/12	Method Blank	85	89	108	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-524141/7

Matrix: Water

Analysis Batch: 524141

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.22	U	1.0	0.22	ug/L			06/01/18 02:13	1
Bromomethane	0.18	U	1.0	0.18	ug/L			06/01/18 02:13	1
Vinyl chloride	0.060	U	1.0	0.060	ug/L			06/01/18 02:13	1
Chloroethane	0.37	U	1.0	0.37	ug/L			06/01/18 02:13	1
Methylene Chloride	0.21	U	1.0	0.21	ug/L			06/01/18 02:13	1
Acetone	1.1	U	5.0	1.1	ug/L			06/01/18 02:13	1
Carbon disulfide	0.22	U	1.0	0.22	ug/L			06/01/18 02:13	1
Trichlorofluoromethane	0.15	U	1.0	0.15	ug/L			06/01/18 02:13	1
1,1-Dichloroethene	0.34	U	1.0	0.34	ug/L			06/01/18 02:13	1
1,1-Dichloroethane	0.24	U	1.0	0.24	ug/L			06/01/18 02:13	1
trans-1,2-Dichloroethene	0.18	U	1.0	0.18	ug/L			06/01/18 02:13	1
cis-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			06/01/18 02:13	1
Chloroform	0.22	U	1.0	0.22	ug/L			06/01/18 02:13	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			06/01/18 02:13	1
2-Butanone	2.2	U	5.0	2.2	ug/L			06/01/18 02:13	1
1,1,1-Trichloroethane	0.28	U	1.0	0.28	ug/L			06/01/18 02:13	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			06/01/18 02:13	1
Bromodichloromethane	0.15	U	1.0	0.15	ug/L			06/01/18 02:13	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/01/18 02:13	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/01/18 02:13	1
Trichloroethene	0.22	U	1.0	0.22	ug/L			06/01/18 02:13	1
Dibromochloromethane	0.22	U	1.0	0.22	ug/L			06/01/18 02:13	1
1,1,2-Trichloroethane	0.080	U	1.0	0.080	ug/L			06/01/18 02:13	1
Benzene	0.090	U	1.0	0.090	ug/L			06/01/18 02:13	1
trans-1,3-Dichloropropene	0.19	U	1.0	0.19	ug/L			06/01/18 02:13	1
Bromoform	0.18	U	1.0	0.18	ug/L			06/01/18 02:13	1
4-Methyl-2-pentanone	0.63	U	5.0	0.63	ug/L			06/01/18 02:13	1
2-Hexanone	0.72	U	5.0	0.72	ug/L			06/01/18 02:13	1
Tetrachloroethene	0.12	U	1.0	0.12	ug/L			06/01/18 02:13	1
1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19	ug/L			06/01/18 02:13	1
Toluene	0.25	U	1.0	0.25	ug/L			06/01/18 02:13	1
Chlorobenzene	0.24	U	1.0	0.24	ug/L			06/01/18 02:13	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			06/01/18 02:13	1
Styrene	0.17	U	1.0	0.17	ug/L			06/01/18 02:13	1
Xylenes, Total	0.28	U	2.0	0.28	ug/L			06/01/18 02:13	1
Freon TF	0.34	U	1.0	0.34	ug/L			06/01/18 02:13	1
MTBE	0.13	U	1.0	0.13	ug/L			06/01/18 02:13	1
Cyclohexane	0.26	U	1.0	0.26	ug/L			06/01/18 02:13	1
1,2-Dibromoethane	0.19	U	1.0	0.19	ug/L			06/01/18 02:13	1
1,3-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			06/01/18 02:13	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			06/01/18 02:13	1
1,2-Dichlorobenzene	0.22	U	1.0	0.22	ug/L			06/01/18 02:13	1
Dichlorodifluoromethane	0.14	U	1.0	0.14	ug/L			06/01/18 02:13	1
1,2,4-Trichlorobenzene	0.27	U	1.0	0.27	ug/L			06/01/18 02:13	1
1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23	ug/L			06/01/18 02:13	1
Isopropylbenzene	0.32	U	1.0	0.32	ug/L			06/01/18 02:13	1
Methylcyclohexane	0.22	U	1.0	0.22	ug/L			06/01/18 02:13	1

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-524141/7

Matrix: Water

Analysis Batch: 524141

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		74 - 132		06/01/18 02:13	1
Toluene-d8 (Surr)	94		80 - 120		06/01/18 02:13	1
Bromofluorobenzene	110		77 - 124		06/01/18 02:13	1
Dibromofluoromethane (Surr)	101		72 - 131		06/01/18 02:13	1

Lab Sample ID: LCS 460-524141/4

Matrix: Water

Analysis Batch: 524141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	16.9		ug/L		85	56 - 131
Bromomethane	20.0	25.0		ug/L		125	10 - 150
Vinyl chloride	20.0	18.1		ug/L		91	62 - 138
Chloroethane	20.0	26.7		ug/L		133	52 - 150
Methylene Chloride	20.0	18.6		ug/L		93	77 - 123
Acetone	100	84.7		ug/L		85	39 - 150
Carbon disulfide	20.0	17.9		ug/L		89	69 - 133
Trichlorofluoromethane	20.0	20.2		ug/L		101	71 - 143
1,1-Dichloroethene	20.0	18.5		ug/L		93	74 - 123
1,1-Dichloroethane	20.0	19.0		ug/L		95	77 - 123
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	79 - 120
cis-1,2-Dichloroethene	20.0	18.9		ug/L		95	80 - 120
Chloroform	20.0	19.6		ug/L		98	80 - 120
1,2-Dichloroethane	20.0	18.0		ug/L		90	76 - 121
2-Butanone	100	97.4		ug/L		97	64 - 120
1,1,1-Trichloroethane	20.0	19.5		ug/L		98	75 - 125
Carbon tetrachloride	20.0	19.2		ug/L		96	70 - 132
Bromodichloromethane	20.0	19.2		ug/L		96	76 - 120
1,2-Dichloropropane	20.0	19.1		ug/L		95	77 - 123
cis-1,3-Dichloropropene	20.0	18.2		ug/L		91	77 - 120
Trichloroethene	20.0	18.7		ug/L		93	77 - 120
Dibromochloromethane	20.0	18.1		ug/L		90	73 - 120
1,1,2-Trichloroethane	20.0	18.6		ug/L		93	78 - 120
Benzene	20.0	18.5		ug/L		92	77 - 121
trans-1,3-Dichloropropene	20.0	17.4		ug/L		87	76 - 120
Bromoform	20.0	18.2		ug/L		91	53 - 120
4-Methyl-2-pentanone	100	96.2		ug/L		96	78 - 124
2-Hexanone	100	93.2		ug/L		93	71 - 125
Tetrachloroethene	20.0	20.9		ug/L		104	78 - 122
1,1,2,2-Tetrachloroethane	20.0	18.3		ug/L		92	74 - 120
Toluene	20.0	18.5		ug/L		93	80 - 120
Chlorobenzene	20.0	18.3		ug/L		91	80 - 120
Ethylbenzene	20.0	18.9		ug/L		95	80 - 120
Styrene	20.0	18.5		ug/L		93	80 - 120
Xylenes, Total	40.0	37.8		ug/L		95	80 - 120
Freon TF	20.0	20.2		ug/L		101	59 - 150
MTBE	20.0	19.0		ug/L		95	79 - 122
Cyclohexane	20.0	19.0		ug/L		95	56 - 150

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-524141/4

Matrix: Water

Analysis Batch: 524141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	20.0	18.3		ug/L		91	80 - 120
1,3-Dichlorobenzene	20.0	18.1		ug/L		90	80 - 120
1,4-Dichlorobenzene	20.0	18.0		ug/L		90	80 - 120
1,2-Dichlorobenzene	20.0	18.2		ug/L		91	80 - 120
Dichlorodifluoromethane	20.0	15.3		ug/L		77	50 - 131
1,2,4-Trichlorobenzene	20.0	21.0		ug/L		105	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	15.9		ug/L		80	55 - 134
Isopropylbenzene	20.0	18.7		ug/L		94	80 - 123
Methylcyclohexane	20.0	18.1		ug/L		91	61 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		74 - 132
Toluene-d8 (Surr)	89		80 - 120
Bromofluorobenzene	108		77 - 124
Dibromofluoromethane (Surr)	93		72 - 131

Lab Sample ID: MB 460-524327/12

Matrix: Water

Analysis Batch: 524327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.22	U	1.0	0.22	ug/L			06/01/18 18:20	1
Bromomethane	0.18	U	1.0	0.18	ug/L			06/01/18 18:20	1
Vinyl chloride	0.060	U	1.0	0.060	ug/L			06/01/18 18:20	1
Chloroethane	0.37	U	1.0	0.37	ug/L			06/01/18 18:20	1
Methylene Chloride	0.21	U	1.0	0.21	ug/L			06/01/18 18:20	1
Acetone	1.1	U	5.0	1.1	ug/L			06/01/18 18:20	1
Carbon disulfide	0.22	U	1.0	0.22	ug/L			06/01/18 18:20	1
Trichlorofluoromethane	0.15	U	1.0	0.15	ug/L			06/01/18 18:20	1
1,1-Dichloroethene	0.34	U	1.0	0.34	ug/L			06/01/18 18:20	1
1,1-Dichloroethane	0.24	U	1.0	0.24	ug/L			06/01/18 18:20	1
trans-1,2-Dichloroethene	0.18	U	1.0	0.18	ug/L			06/01/18 18:20	1
cis-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			06/01/18 18:20	1
Chloroform	0.22	U	1.0	0.22	ug/L			06/01/18 18:20	1
1,2-Dichloroethane	0.25	U	1.0	0.25	ug/L			06/01/18 18:20	1
2-Butanone	2.2	U	5.0	2.2	ug/L			06/01/18 18:20	1
1,1,1-Trichloroethane	0.28	U	1.0	0.28	ug/L			06/01/18 18:20	1
Carbon tetrachloride	0.33	U	1.0	0.33	ug/L			06/01/18 18:20	1
Bromodichloromethane	0.15	U	1.0	0.15	ug/L			06/01/18 18:20	1
1,2-Dichloropropane	0.18	U	1.0	0.18	ug/L			06/01/18 18:20	1
cis-1,3-Dichloropropene	0.16	U	1.0	0.16	ug/L			06/01/18 18:20	1
Trichloroethene	0.22	U	1.0	0.22	ug/L			06/01/18 18:20	1
Dibromochloromethane	0.22	U	1.0	0.22	ug/L			06/01/18 18:20	1
1,1,2-Trichloroethane	0.080	U	1.0	0.080	ug/L			06/01/18 18:20	1
Benzene	0.090	U	1.0	0.090	ug/L			06/01/18 18:20	1
trans-1,3-Dichloropropene	0.19	U	1.0	0.19	ug/L			06/01/18 18:20	1
Bromoform	0.18	U	1.0	0.18	ug/L			06/01/18 18:20	1
4-Methyl-2-pentanone	0.63	U	5.0	0.63	ug/L			06/01/18 18:20	1

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-524327/12

Matrix: Water

Analysis Batch: 524327

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	0.72	U	5.0	0.72	ug/L			06/01/18 18:20	1
Tetrachloroethene	0.12	U	1.0	0.12	ug/L			06/01/18 18:20	1
1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19	ug/L			06/01/18 18:20	1
Toluene	0.25	U	1.0	0.25	ug/L			06/01/18 18:20	1
Chlorobenzene	0.24	U	1.0	0.24	ug/L			06/01/18 18:20	1
Ethylbenzene	0.30	U	1.0	0.30	ug/L			06/01/18 18:20	1
Styrene	0.17	U	1.0	0.17	ug/L			06/01/18 18:20	1
Xylenes, Total	0.28	U	2.0	0.28	ug/L			06/01/18 18:20	1
Freon TF	0.34	U	1.0	0.34	ug/L			06/01/18 18:20	1
MTBE	0.13	U	1.0	0.13	ug/L			06/01/18 18:20	1
Cyclohexane	0.26	U	1.0	0.26	ug/L			06/01/18 18:20	1
1,2-Dibromoethane	0.19	U	1.0	0.19	ug/L			06/01/18 18:20	1
1,3-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			06/01/18 18:20	1
1,4-Dichlorobenzene	0.33	U	1.0	0.33	ug/L			06/01/18 18:20	1
1,2-Dichlorobenzene	0.22	U	1.0	0.22	ug/L			06/01/18 18:20	1
Dichlorodifluoromethane	0.14	U	1.0	0.14	ug/L			06/01/18 18:20	1
1,2,4-Trichlorobenzene	0.27	U	1.0	0.27	ug/L			06/01/18 18:20	1
1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23	ug/L			06/01/18 18:20	1
Isopropylbenzene	0.32	U	1.0	0.32	ug/L			06/01/18 18:20	1
Methylcyclohexane	0.22	U	1.0	0.22	ug/L			06/01/18 18:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		74 - 132		06/01/18 18:20	1
Toluene-d8 (Surr)	89		80 - 120		06/01/18 18:20	1
Bromofluorobenzene	108		77 - 124		06/01/18 18:20	1
Dibromofluoromethane (Surr)	97		72 - 131		06/01/18 18:20	1

Lab Sample ID: LCS 460-524327/3

Matrix: Water

Analysis Batch: 524327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	20.0	19.3		ug/L		97	56 - 131
Bromomethane	20.0	38.4	*	ug/L		192	10 - 150
Vinyl chloride	20.0	19.8		ug/L		99	62 - 138
Chloroethane	20.0	23.6		ug/L		118	52 - 150
Methylene Chloride	20.0	19.0		ug/L		95	77 - 123
Acetone	100	87.5		ug/L		88	39 - 150
Carbon disulfide	20.0	20.1		ug/L		101	69 - 133
Trichlorofluoromethane	20.0	20.7		ug/L		104	71 - 143
1,1-Dichloroethene	20.0	19.8		ug/L		99	74 - 123
1,1-Dichloroethane	20.0	20.0		ug/L		100	77 - 123
trans-1,2-Dichloroethene	20.0	20.7		ug/L		104	79 - 120
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	80 - 120
Chloroform	20.0	20.5		ug/L		102	80 - 120
1,2-Dichloroethane	20.0	18.4		ug/L		92	76 - 121
2-Butanone	100	97.7		ug/L		98	64 - 120
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	75 - 125

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-524327/3

Matrix: Water

Analysis Batch: 524327

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	20.0	21.0		ug/L		105	70 - 132
Bromodichloromethane	20.0	20.4		ug/L		102	76 - 120
1,2-Dichloropropane	20.0	19.7		ug/L		98	77 - 123
cis-1,3-Dichloropropene	20.0	18.7		ug/L		93	77 - 120
Trichloroethene	20.0	19.8		ug/L		99	77 - 120
Dibromochloromethane	20.0	19.2		ug/L		96	73 - 120
1,1,2-Trichloroethane	20.0	18.9		ug/L		94	78 - 120
Benzene	20.0	19.1		ug/L		96	77 - 121
trans-1,3-Dichloropropene	20.0	17.8		ug/L		89	76 - 120
Bromoform	20.0	19.0		ug/L		95	53 - 120
4-Methyl-2-pentanone	100	97.7		ug/L		98	78 - 124
2-Hexanone	100	95.2		ug/L		95	71 - 125
Tetrachloroethene	20.0	21.8		ug/L		109	78 - 122
1,1,2,2-Tetrachloroethane	20.0	18.5		ug/L		93	74 - 120
Toluene	20.0	19.4		ug/L		97	80 - 120
Chlorobenzene	20.0	19.1		ug/L		96	80 - 120
Ethylbenzene	20.0	20.0		ug/L		100	80 - 120
Styrene	20.0	19.0		ug/L		95	80 - 120
Xylenes, Total	40.0	39.5		ug/L		99	80 - 120
Freon TF	20.0	22.0		ug/L		110	59 - 150
MTBE	20.0	19.2		ug/L		96	79 - 122
Cyclohexane	20.0	21.0		ug/L		105	56 - 150
1,2-Dibromoethane	20.0	18.9		ug/L		94	80 - 120
1,3-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120
1,4-Dichlorobenzene	20.0	18.5		ug/L		93	80 - 120
1,2-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120
Dichlorodifluoromethane	20.0	19.3		ug/L		97	50 - 131
1,2,4-Trichlorobenzene	20.0	21.5		ug/L		107	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	16.7		ug/L		84	55 - 134
Isopropylbenzene	20.0	19.6		ug/L		98	80 - 123
Methylcyclohexane	20.0	20.5		ug/L		103	61 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		74 - 132
Toluene-d8 (Surr)	89		80 - 120
Bromofluorobenzene	108		77 - 124
Dibromofluoromethane (Surr)	94		72 - 131

Lab Sample ID: LCSD 460-524327/6

Matrix: Water

Analysis Batch: 524327

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	20.0	18.7		ug/L		93	56 - 131	3	30
Bromomethane	20.0	39.3	*	ug/L		197	10 - 150	2	30
Vinyl chloride	20.0	19.7		ug/L		99	62 - 138	1	30
Chloroethane	20.0	22.8		ug/L		114	52 - 150	3	30
Methylene Chloride	20.0	19.8		ug/L		99	77 - 123	4	30

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-524327/6

Matrix: Water

Analysis Batch: 524327

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	94.4		ug/L		94	39 - 150	8	30
Carbon disulfide	20.0	20.8		ug/L		104	69 - 133	3	30
Trichlorofluoromethane	20.0	20.3		ug/L		102	71 - 143	2	30
1,1-Dichloroethene	20.0	20.7		ug/L		104	74 - 123	4	30
1,1-Dichloroethane	20.0	19.8		ug/L		99	77 - 123	1	30
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	79 - 120	2	30
cis-1,2-Dichloroethene	20.0	20.1		ug/L		100	80 - 120	1	30
Chloroform	20.0	20.7		ug/L		103	80 - 120	1	30
1,2-Dichloroethane	20.0	18.8		ug/L		94	76 - 121	2	30
2-Butanone	100	103		ug/L		103	64 - 120	5	30
1,1,1-Trichloroethane	20.0	20.9		ug/L		104	75 - 125	3	30
Carbon tetrachloride	20.0	21.6		ug/L		108	70 - 132	3	30
Bromodichloromethane	20.0	21.1		ug/L		106	76 - 120	3	30
1,2-Dichloropropane	20.0	20.2		ug/L		101	77 - 123	3	30
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	77 - 120	2	30
Trichloroethene	20.0	20.6		ug/L		103	77 - 120	4	30
Dibromochloromethane	20.0	19.7		ug/L		99	73 - 120	2	30
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	78 - 120	2	30
Benzene	20.0	19.6		ug/L		98	77 - 121	2	30
trans-1,3-Dichloropropene	20.0	18.6		ug/L		93	76 - 120	4	30
Bromoform	20.0	20.5		ug/L		102	53 - 120	8	30
4-Methyl-2-pentanone	100	104		ug/L		104	78 - 124	6	30
2-Hexanone	100	98.2		ug/L		98	71 - 125	3	30
Tetrachloroethene	20.0	22.5		ug/L		113	78 - 122	3	30
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		98	74 - 120	6	30
Toluene	20.0	19.8		ug/L		99	80 - 120	2	30
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120	3	30
Ethylbenzene	20.0	20.5		ug/L		103	80 - 120	2	30
Styrene	20.0	19.6		ug/L		98	80 - 120	3	30
Xylenes, Total	40.0	40.5		ug/L		101	80 - 120	3	30
Freon TF	20.0	22.7		ug/L		113	59 - 150	3	30
MTBE	20.0	19.6		ug/L		98	79 - 122	2	30
Cyclohexane	20.0	21.8		ug/L		109	56 - 150	4	30
1,2-Dibromoethane	20.0	19.5		ug/L		98	80 - 120	3	30
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120	3	30
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120	3	30
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120	3	30
Dichlorodifluoromethane	20.0	19.2		ug/L		96	50 - 131	1	30
1,2,4-Trichlorobenzene	20.0	21.7		ug/L		109	80 - 124	1	30
1,2-Dibromo-3-Chloropropane	20.0	17.3		ug/L		87	55 - 134	3	30
Isopropylbenzene	20.0	20.3		ug/L		101	80 - 123	3	30
Methylcyclohexane	20.0	21.3		ug/L		107	61 - 145	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	84		74 - 132
Toluene-d8 (Surr)	89		80 - 120
Bromofluorobenzene	108		77 - 124
Dibromofluoromethane (Surr)	95		72 - 131

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Lab Sample ID: 460-157038-1 MS
Matrix: Water
Analysis Batch: 524327

Client Sample ID: NL-MW-3-20180525
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	1.1	U	100	60.6		ug/L		61	56 - 131
Bromomethane	0.90	U *	100	208	*	ug/L		208	10 - 150
Vinyl chloride	1.0	J	100	96.4		ug/L		95	62 - 138
Chloroethane	1.9	U	100	112		ug/L		112	52 - 150
Methylene Chloride	1.2	J	100	98.2		ug/L		97	77 - 123
Acetone	14	J	500	463		ug/L		90	39 - 150
Carbon disulfide	1.1	U	100	102		ug/L		102	69 - 133
Trichlorofluoromethane	0.75	U	100	99.6		ug/L		100	71 - 143
1,1-Dichloroethene	1.7	U	100	100		ug/L		100	74 - 123
1,1-Dichloroethane	1.2	U	100	98.1		ug/L		98	77 - 123
trans-1,2-Dichloroethene	5.7		100	111		ug/L		106	79 - 120
cis-1,2-Dichloroethene	29		100	126		ug/L		97	80 - 120
Chloroform	14		100	115		ug/L		101	80 - 120
1,2-Dichloroethane	1.3	U	100	92.1		ug/L		92	76 - 121
2-Butanone	11	U	500	512		ug/L		102	64 - 120
1,1,1-Trichloroethane	1.4	U	100	104		ug/L		104	75 - 125
Carbon tetrachloride	1.7	U	100	107		ug/L		107	70 - 132
Bromodichloromethane	0.75	U	100	104		ug/L		104	76 - 120
1,2-Dichloropropane	0.90	U	100	101		ug/L		101	77 - 123
cis-1,3-Dichloropropene	0.80	U	100	96.0		ug/L		96	77 - 120
Trichloroethene	940		100	870	*	ug/L		-68	77 - 120
Dibromochloromethane	1.1	U	100	100		ug/L		100	73 - 120
1,1,2-Trichloroethane	0.40	U	100	96.8		ug/L		97	78 - 120
Benzene	6.0		100	104		ug/L		98	77 - 121
trans-1,3-Dichloropropene	0.95	U	100	91.2		ug/L		91	76 - 120
Bromoform	0.90	U	100	104		ug/L		104	53 - 120
4-Methyl-2-pentanone	3.2	U	500	528		ug/L		106	78 - 124
2-Hexanone	3.6	U	500	502		ug/L		100	71 - 125
Tetrachloroethene	1.2	J	100	114		ug/L		113	78 - 122
1,1,2,2-Tetrachloroethane	0.95	U	100	91.6		ug/L		92	74 - 120
Toluene	1.3	U	100	99.5		ug/L		99	80 - 120
Chlorobenzene	1.2	U	100	98.0		ug/L		98	80 - 120
Ethylbenzene	5.2		100	108		ug/L		103	80 - 120
Styrene	0.85	U	100	98.4		ug/L		98	80 - 120
Xylenes, Total	1.4	U	200	204		ug/L		102	80 - 120
Freon TF	1.7	U	100	112		ug/L		112	59 - 150
MTBE	0.91	J	100	95.5		ug/L		95	79 - 122
Cyclohexane	24		100	135		ug/L		111	56 - 150
1,2-Dibromoethane	0.95	U	100	97.1		ug/L		97	80 - 120
1,3-Dichlorobenzene	1.7	U	100	95.7		ug/L		96	80 - 120
1,4-Dichlorobenzene	1.7	U	100	94.0		ug/L		94	80 - 120
1,2-Dichlorobenzene	1.1	U	100	96.1		ug/L		96	80 - 120
Dichlorodifluoromethane	0.70	U	100	93.6		ug/L		94	50 - 131
1,2,4-Trichlorobenzene	1.4	U	100	115		ug/L		115	80 - 124
1,2-Dibromo-3-Chloropropane	1.2	U	100	77.5		ug/L		78	55 - 134
Isopropylbenzene	3.3	J	100	107		ug/L		104	80 - 123
Methylcyclohexane	9.6		100	121		ug/L		111	61 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		74 - 132

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-157038-1 MS

Matrix: Water

Analysis Batch: 524327

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	91		80 - 120
Bromofluorobenzene	113		77 - 124
Dibromofluoromethane (Surr)	96		72 - 131

Lab Sample ID: 460-157038-1MSD

Matrix: Water

Analysis Batch: 524327

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	1.1	U	100	37.2	*	ug/L		37	56 - 131	48	30
Bromomethane	0.90	U *	100	212	*	ug/L		212	10 - 150	2	30
Vinyl chloride	1.0	J	100	102		ug/L		101	62 - 138	5	30
Chloroethane	1.9	U	100	118		ug/L		118	52 - 150	5	30
Methylene Chloride	1.2	J	100	105		ug/L		103	77 - 123	6	30
Acetone	14	J	500	479		ug/L		93	39 - 150	3	30
Carbon disulfide	1.1	U	100	107		ug/L		107	69 - 133	5	30
Trichlorofluoromethane	0.75	U	100	106		ug/L		106	71 - 143	6	30
1,1-Dichloroethene	1.7	U	100	104		ug/L		104	74 - 123	4	30
1,1-Dichloroethane	1.2	U	100	108		ug/L		108	77 - 123	10	30
trans-1,2-Dichloroethene	5.7		100	116		ug/L		110	79 - 120	4	30
cis-1,2-Dichloroethene	29		100	131		ug/L		102	80 - 120	4	30
Chloroform	14		100	119		ug/L		105	80 - 120	3	30
1,2-Dichloroethane	1.3	U	100	98.3		ug/L		98	76 - 121	6	30
2-Butanone	11	U	500	552		ug/L		110	64 - 120	8	30
1,1,1-Trichloroethane	1.4	U	100	108		ug/L		108	75 - 125	5	30
Carbon tetrachloride	1.7	U	100	114		ug/L		114	70 - 132	6	30
Bromodichloromethane	0.75	U	100	110		ug/L		110	76 - 120	5	30
1,2-Dichloropropane	0.90	U	100	107		ug/L		107	77 - 123	6	30
cis-1,3-Dichloropropene	0.80	U	100	99.4		ug/L		99	77 - 120	4	30
Trichloroethene	940		100	913	*	ug/L		-26	77 - 120	5	30
Dibromochloromethane	1.1	U	100	106		ug/L		106	73 - 120	5	30
1,1,2-Trichloroethane	0.40	U	100	101		ug/L		101	78 - 120	5	30
Benzene	6.0		100	110		ug/L		104	77 - 121	5	30
trans-1,3-Dichloropropene	0.95	U	100	96.5		ug/L		96	76 - 120	6	30
Bromoform	0.90	U	100	108		ug/L		108	53 - 120	4	30
4-Methyl-2-pentanone	3.2	U	500	569		ug/L		114	78 - 124	8	30
2-Hexanone	3.6	U	500	549		ug/L		110	71 - 125	9	30
Tetrachloroethene	1.2	J	100	119		ug/L		118	78 - 122	4	30
1,1,2,2-Tetrachloroethane	0.95	U	100	96.3		ug/L		96	74 - 120	5	30
Toluene	1.3	U	100	103		ug/L		103	80 - 120	4	30
Chlorobenzene	1.2	U	100	103		ug/L		103	80 - 120	5	30
Ethylbenzene	5.2		100	114		ug/L		109	80 - 120	5	30
Styrene	0.85	U	100	103		ug/L		103	80 - 120	5	30
Xylenes, Total	1.4	U	200	212		ug/L		106	80 - 120	4	30
Freon TF	1.7	U	100	115		ug/L		115	59 - 150	2	30
MTBE	0.91	J	100	102		ug/L		101	79 - 122	7	30
Cyclohexane	24		100	140		ug/L		116	56 - 150	4	30
1,2-Dibromoethane	0.95	U	100	101		ug/L		101	80 - 120	4	30

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-157038-1MSD

Matrix: Water

Analysis Batch: 524327

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	1.7	U	100	101		ug/L		101	80 - 120	6	30
1,4-Dichlorobenzene	1.7	U	100	99.0		ug/L		99	80 - 120	5	30
1,2-Dichlorobenzene	1.1	U	100	102		ug/L		102	80 - 120	6	30
Dichlorodifluoromethane	0.70	U	100	98.5		ug/L		98	50 - 131	5	30
1,2,4-Trichlorobenzene	1.4	U	100	120		ug/L		120	80 - 124	4	30
1,2-Dibromo-3-Chloropropane	1.2	U	100	85.1		ug/L		85	55 - 134	9	30
Isopropylbenzene	3.3	J	100	111		ug/L		108	80 - 123	4	30
Methylcyclohexane	9.6		100	127		ug/L		118	61 - 145	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		74 - 132
Toluene-d8 (Surr)	96		80 - 120
Bromofluorobenzene	119		77 - 124
Dibromofluoromethane (Surr)	103		72 - 131

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-417210/6

Matrix: Water

Analysis Batch: 417210

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.0	U	4.0	1.0	ug/L			05/31/18 10:49	1

Lab Sample ID: LCS 480-417210/7

Matrix: Water

Analysis Batch: 417210

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	7.77	7.97		ug/L		103	85 - 120

Lab Sample ID: 460-157038-1 MS

Matrix: Water

Analysis Batch: 417210

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	360		85.5	599	*	ug/L		280	38 - 150

Lab Sample ID: 460-157038-1MSD

Matrix: Water

Analysis Batch: 417210

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	360		85.5	437		ug/L		91	38 - 150	31	50

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 460-522878/3

Matrix: Water

Analysis Batch: 522878

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.33	U	0.60	0.33	mg/L			05/26/18 23:46	1
Chloride	0.078	U	0.12	0.078	mg/L			05/26/18 23:46	1

Lab Sample ID: LCS 460-522878/5

Matrix: Water

Analysis Batch: 522878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	7.50	7.300		mg/L		97	90 - 110
Chloride	1.50	1.396		mg/L		93	90 - 110

Lab Sample ID: LCSD 460-522878/6

Matrix: Water

Analysis Batch: 522878

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	7.50	7.123		mg/L		95	90 - 110	2	15
Chloride	1.50	1.386		mg/L		92	90 - 110	1	15

Lab Sample ID: MB 460-522969/3

Matrix: Water

Analysis Batch: 522969

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.33	U	0.60	0.33	mg/L			05/27/18 09:54	1
Chloride	0.078	U	0.12	0.078	mg/L			05/27/18 09:54	1

Lab Sample ID: LCS 460-522969/5

Matrix: Water

Analysis Batch: 522969

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	7.50	7.241		mg/L		97	90 - 110
Chloride	1.50	1.395		mg/L		93	90 - 110

Lab Sample ID: LCSD 460-522969/6

Matrix: Water

Analysis Batch: 522969

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	7.50	7.082		mg/L		94	90 - 110	2	15
Chloride	1.50	1.386		mg/L		92	90 - 110	1	15

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 300.0 - Anions, Ion Chromatography - DL2

Lab Sample ID: 460-157038-1 DU

Matrix: Water

Analysis Batch: 522969

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate - DL2	320		321.8		mg/L		0.4	15
Chloride - DL2	401		400.0		mg/L		0.3	15

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 460-523775/1-A

Matrix: Water

Analysis Batch: 523968

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 523775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	111	U	150	111	ug/L		05/30/18 20:15	06/01/18 04:57	1
Sodium	846	U	5000	846	ug/L		05/30/18 20:15	06/01/18 04:57	1

Lab Sample ID: LCS 460-523775/2-A

Matrix: Water

Analysis Batch: 523968

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 523775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1000	985.7		ug/L		99	85 - 115
Sodium	20000	18970		ug/L		95	85 - 115

Lab Sample ID: 460-157038-1 MS

Matrix: Water

Analysis Batch: 523968

Client Sample ID: NL-MW-3-20180525

Prep Type: Total Recoverable

Prep Batch: 523775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5960		1000	6988	4	ug/L		103	70 - 130
Sodium	268000		20000	285700	4	ug/L		87	70 - 130

Lab Sample ID: 460-157038-1 DU

Matrix: Water

Analysis Batch: 523968

Client Sample ID: NL-MW-3-20180525

Prep Type: Total Recoverable

Prep Batch: 523775

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iron	5960		5669		ug/L		5	20
Sodium	268000		260100		ug/L		3	20

Lab Sample ID: LCS 460-523831/2-A

Matrix: Water

Analysis Batch: 524302

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 523831

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	500	519.2		ug/L		104	85 - 115

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 460-523830/1-B
Matrix: Water
Analysis Batch: 524302

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 523831

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	5.0	U	15.0	5.0	ug/L		05/31/18 02:30	06/01/18 01:06	1

Lab Sample ID: 460-157038-1 MS
Matrix: Water
Analysis Batch: 524302

Client Sample ID: NL-MW-3-20180525
Prep Type: Dissolved
Prep Batch: 523831

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	1430		500	1962		ug/L		106	70 - 130

Lab Sample ID: 460-157038-1 DU
Matrix: Water
Analysis Batch: 524302

Client Sample ID: NL-MW-3-20180525
Prep Type: Dissolved
Prep Batch: 523831

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Manganese	1430		1446		ug/L		1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 460-524357/2
Matrix: Water
Analysis Batch: 524357

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	5.0	U	5.0	5.0	mg/L			06/01/18 11:20	1
Alkalinity	5.0	U	5.0	5.0	mg/L			06/01/18 11:20	1

Lab Sample ID: LCSSRM 460-524357/3
Matrix: Water
Analysis Batch: 524357

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	53.9	57.20		mg/L		106.1	85.0 - 114.8

Lab Sample ID: 460-157038-1 DU
Matrix: Water
Analysis Batch: 524357

Client Sample ID: NL-MW-3-20180525
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Carbonate Alkalinity as CaCO3	5.0	U	5.0	U	mg/L		NC	10
Alkalinity	374		356.7		mg/L		5	10

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 460-523698/3

Matrix: Water

Analysis Batch: 523698

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	0.056	U	0.10	0.056	mg/L			05/30/18 16:56	1

Lab Sample ID: LCS 460-523698/4

Matrix: Water

Analysis Batch: 523698

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.500	0.485		mg/L		97	84 - 119

Lab Sample ID: 460-157038-1 MS

Matrix: Water

Analysis Batch: 523698

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.056	U HF	2.00	1.47	HF N	mg/L		74	84 - 119

Lab Sample ID: 460-157038-1MSD

Matrix: Water

Analysis Batch: 523698

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	0.056	U HF	2.00	1.45	HF N	mg/L		73	84 - 119	1	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 460-524039/1

Matrix: Water

Analysis Batch: 524039

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.58	U	1.0	0.58	mg/L			05/31/18 15:51	1

Lab Sample ID: LCSSRM 460-524039/3

Matrix: Water

Analysis Batch: 524039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	5.97	4.69		mg/L		78.5	44.2 - 144. 7

Lab Sample ID: 460-157038-1 MS

Matrix: Water

Analysis Batch: 524039

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	0.58	U	4.31	3.56		mg/L		82	42 - 110

TestAmerica Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Method: SM 4500 S2 F - Sulfide, Total (Continued)

Lab Sample ID: 460-157038-1MSD

Matrix: Water

Analysis Batch: 524039

Client Sample ID: NL-MW-3-20180525

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide			4.31	3.56		mg/L					

Lab Sample ID: MB 460-524040/1

Matrix: Water

Analysis Batch: 524040

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.58	U	1.0	0.58	mg/L			05/31/18 15:58	1

Lab Sample ID: LCS 460-524040/3

Matrix: Water

Analysis Batch: 524040

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	5.97	4.69		mg/L		79	70 - 130

Definitions/Glossary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated value.
*	LCS or LCSD is outside acceptance limits.
*	MS or MSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits

GC VOA

Qualifier	Qualifier Description
*	MS or MSD is outside acceptance limits.
U	Analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
N	PDS exceeds control limits
U	Indicates analyzed for but not detected.
J	Sample result is greater than the MDL but below the CRDL

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates analyzed for but not detected.
N	Spiked sample recovery is not within control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Definitions/Glossary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

GC/MS VOA

Analysis Batch: 524141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-3	NL-FB-20180525	Total/NA	Water	8260C	
460-157038-4	NL-TB-20180525	Total/NA	Water	8260C	
MB 460-524141/7	Method Blank	Total/NA	Water	8260C	
LCS 460-524141/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 524327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Total/NA	Water	8260C	
460-157038-2	NL-MW-DUP-20180525	Total/NA	Water	8260C	
MB 460-524327/12	Method Blank	Total/NA	Water	8260C	
LCS 460-524327/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-524327/6	Lab Control Sample Dup	Total/NA	Water	8260C	
460-157038-1 MS	NL-MW-3-20180525	Total/NA	Water	8260C	
460-157038-1MSD	NL-MW-3-20180525	Total/NA	Water	8260C	

GC VOA

Analysis Batch: 417210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Total/NA	Water	RSK-175	
460-157038-2	NL-MW-DUP-20180525	Total/NA	Water	RSK-175	
460-157038-3	NL-FB-20180525	Total/NA	Water	RSK-175	
MB 480-417210/6	Method Blank	Total/NA	Water	RSK-175	
LCS 480-417210/7	Lab Control Sample	Total/NA	Water	RSK-175	
460-157038-1 MS	NL-MW-3-20180525	Total/NA	Water	RSK-175	
460-157038-1MSD	NL-MW-3-20180525	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 522878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-3 - DL	NL-FB-20180525	Total/NA	Water	300.0	
MB 460-522878/3	Method Blank	Total/NA	Water	300.0	
LCS 460-522878/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-522878/6	Lab Control Sample Dup	Total/NA	Water	300.0	
460-157038-1 MS - DL	NL-MW-3-20180525	Total/NA	Water	300.0	
460-157038-1MSD - DL	NL-MW-3-20180525	Total/NA	Water	300.0	

Analysis Batch: 522969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1 - DL2	NL-MW-3-20180525	Total/NA	Water	300.0	
460-157038-2 - DL2	NL-MW-DUP-20180525	Total/NA	Water	300.0	
460-157038-3	NL-FB-20180525	Total/NA	Water	300.0	
MB 460-522969/3	Method Blank	Total/NA	Water	300.0	
LCS 460-522969/5	Lab Control Sample	Total/NA	Water	300.0	
LCSD 460-522969/6	Lab Control Sample Dup	Total/NA	Water	300.0	
460-157038-1 DU - DL2	NL-MW-3-20180525	Total/NA	Water	300.0	

QC Association Summary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Metals

Prep Batch: 523775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Total Recoverable	Water	200.7	
460-157038-2	NL-MW-DUP-20180525	Total Recoverable	Water	200.7	
460-157038-3	NL-FB-20180525	Total Recoverable	Water	200.7	
MB 460-523775/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 460-523775/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
460-157038-1 MS	NL-MW-3-20180525	Total Recoverable	Water	200.7	
460-157038-1 DU	NL-MW-3-20180525	Total Recoverable	Water	200.7	

Filtration Batch: 523830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Dissolved	Water	FILTRATION	
460-157038-2	NL-MW-DUP-20180525	Dissolved	Water	FILTRATION	
460-157038-3	NL-FB-20180525	Dissolved	Water	FILTRATION	
MB 460-523830/1-B	Method Blank	Dissolved	Water	FILTRATION	
460-157038-1 MS	NL-MW-3-20180525	Dissolved	Water	FILTRATION	
460-157038-1 DU	NL-MW-3-20180525	Dissolved	Water	FILTRATION	

Prep Batch: 523831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Dissolved	Water	200.7	523830
460-157038-2	NL-MW-DUP-20180525	Dissolved	Water	200.7	523830
460-157038-3	NL-FB-20180525	Dissolved	Water	200.7	523830
MB 460-523830/1-B	Method Blank	Dissolved	Water	200.7	523830
LCS 460-523831/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
460-157038-1 MS	NL-MW-3-20180525	Dissolved	Water	200.7	523830
460-157038-1 DU	NL-MW-3-20180525	Dissolved	Water	200.7	523830

Analysis Batch: 523968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Total Recoverable	Water	200.7 Rev 4.4	523775
460-157038-2	NL-MW-DUP-20180525	Total Recoverable	Water	200.7 Rev 4.4	523775
460-157038-3	NL-FB-20180525	Total Recoverable	Water	200.7 Rev 4.4	523775
MB 460-523775/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	523775
LCS 460-523775/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	523775
460-157038-1 MS	NL-MW-3-20180525	Total Recoverable	Water	200.7 Rev 4.4	523775
460-157038-1 DU	NL-MW-3-20180525	Total Recoverable	Water	200.7 Rev 4.4	523775

Analysis Batch: 524302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Dissolved	Water	200.7 Rev 4.4	523831
460-157038-2	NL-MW-DUP-20180525	Dissolved	Water	200.7 Rev 4.4	523831
460-157038-3	NL-FB-20180525	Dissolved	Water	200.7 Rev 4.4	523831
MB 460-523830/1-B	Method Blank	Dissolved	Water	200.7 Rev 4.4	523831
LCS 460-523831/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	523831
460-157038-1 MS	NL-MW-3-20180525	Dissolved	Water	200.7 Rev 4.4	523831
460-157038-1 DU	NL-MW-3-20180525	Dissolved	Water	200.7 Rev 4.4	523831

QC Association Summary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

General Chemistry

Analysis Batch: 523698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Total/NA	Water	SM 3500 FE D	
460-157038-2	NL-MW-DUP-20180525	Total/NA	Water	SM 3500 FE D	
460-157038-3	NL-FB-20180525	Total/NA	Water	SM 3500 FE D	
MB 460-523698/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 460-523698/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
460-157038-1 MS	NL-MW-3-20180525	Total/NA	Water	SM 3500 FE D	
460-157038-1MSD	NL-MW-3-20180525	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 524039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Total/NA	Water	SM 4500 S2 F	
460-157038-2	NL-MW-DUP-20180525	Total/NA	Water	SM 4500 S2 F	
460-157038-3	NL-FB-20180525	Total/NA	Water	SM 4500 S2 F	
MB 460-524039/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCSSRM 460-524039/3	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
460-157038-1 MS	NL-MW-3-20180525	Total/NA	Water	SM 4500 S2 F	
460-157038-1MSD	NL-MW-3-20180525	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 524040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-524040/1	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 460-524040/3	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 524357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-157038-1	NL-MW-3-20180525	Total/NA	Water	SM 2320B	
460-157038-2	NL-MW-DUP-20180525	Total/NA	Water	SM 2320B	
460-157038-3	NL-FB-20180525	Total/NA	Water	SM 2320B	
MB 460-524357/2	Method Blank	Total/NA	Water	SM 2320B	
LCSSRM 460-524357/3	Lab Control Sample	Total/NA	Water	SM 2320B	
460-157038-1 DU	NL-MW-3-20180525	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-MW-3-20180525

Date Collected: 05/25/18 11:30

Date Received: 05/25/18 18:40

Lab Sample ID: 460-157038-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	524327	06/01/18 18:56	MZS	TAL EDI
Total/NA	Analysis	RSK-175		11	417210	05/31/18 13:36	KEK	TAL BUF
Total/NA	Analysis	300.0	DL2	160	522969	05/27/18 14:34	YXZ	TAL EDI
Dissolved	Filtration	FILTRATION			523830	05/31/18 01:30	GAE	TAL EDI
Dissolved	Prep	200.7			523831	05/31/18 02:30	GAE	TAL EDI
Dissolved	Analysis	200.7 Rev 4.4		1	524302	06/01/18 01:49	YZH	TAL EDI
Total Recoverable	Prep	200.7			523775	05/30/18 20:15	GAE	TAL EDI
Total Recoverable	Analysis	200.7 Rev 4.4		1	523968	06/01/18 05:05	CDC	TAL EDI
Total/NA	Analysis	SM 2320B		1	524357	06/01/18 12:15	RAK	TAL EDI
Total/NA	Analysis	SM 3500 FE D		1	523698	05/30/18 16:56	HTV	TAL EDI
Total/NA	Analysis	SM 4500 S2 F		1	524039	05/31/18 15:51	YAH	TAL EDI

Client Sample ID: NL-MW-DUP-20180525

Date Collected: 05/25/18 11:50

Date Received: 05/25/18 18:40

Lab Sample ID: 460-157038-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	524327	06/01/18 19:24	MZS	TAL EDI
Total/NA	Analysis	RSK-175		11	417210	05/31/18 17:58	KEK	TAL BUF
Total/NA	Analysis	300.0	DL2	100	522969	05/27/18 15:45	YXZ	TAL EDI
Dissolved	Filtration	FILTRATION			523830	05/31/18 01:30	GAE	TAL EDI
Dissolved	Prep	200.7			523831	05/31/18 02:30	GAE	TAL EDI
Dissolved	Analysis	200.7 Rev 4.4		1	524302	06/01/18 02:24	YZH	TAL EDI
Total Recoverable	Prep	200.7			523775	05/30/18 20:15	GAE	TAL EDI
Total Recoverable	Analysis	200.7 Rev 4.4		1	523968	06/01/18 05:21	CDC	TAL EDI
Total/NA	Analysis	SM 2320B		1	524357	06/01/18 12:34	RAK	TAL EDI
Total/NA	Analysis	SM 3500 FE D		1	523698	05/30/18 16:56	HTV	TAL EDI
Total/NA	Analysis	SM 4500 S2 F		1	524039	05/31/18 15:51	YAH	TAL EDI

Client Sample ID: NL-FB-20180525

Date Collected: 05/25/18 12:00

Date Received: 05/25/18 18:40

Lab Sample ID: 460-157038-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524141	06/01/18 04:12	VBP	TAL EDI
Total/NA	Analysis	RSK-175		1	417210	05/31/18 14:46	KEK	TAL BUF
Total/NA	Analysis	300.0	DL	10	522878	05/27/18 08:42	YXZ	TAL EDI
Total/NA	Analysis	300.0		1	522969	05/27/18 16:32	YXZ	TAL EDI
Dissolved	Filtration	FILTRATION			523830	05/31/18 01:30	GAE	TAL EDI
Dissolved	Prep	200.7			523831	05/31/18 02:30	GAE	TAL EDI
Dissolved	Analysis	200.7 Rev 4.4		1	524302	06/01/18 02:28	YZH	TAL EDI
Total Recoverable	Prep	200.7			523775	05/30/18 20:15	GAE	TAL EDI

TestAmerica Edison

Lab Chronicle

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Client Sample ID: NL-FB-20180525

Date Collected: 05/25/18 12:00

Date Received: 05/25/18 18:40

Lab Sample ID: 460-157038-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	200.7 Rev 4.4		1	523968	06/01/18 05:25	CDC	TAL EDI
Total/NA	Analysis	SM 2320B		1	524357	06/01/18 12:41	RAK	TAL EDI
Total/NA	Analysis	SM 3500 FE D		1	523698	05/30/18 16:56	HTV	TAL EDI
Total/NA	Analysis	SM 4500 S2 F		1	524039	05/31/18 15:51	YAH	TAL EDI

Client Sample ID: NL-TB-20180525

Date Collected: 05/25/18 00:00

Date Received: 05/25/18 18:40

Lab Sample ID: 460-157038-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524141	06/01/18 03:16	VBP	TAL EDI

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AKRF Inc
Project/Site: 3200 Jerome Ave

TestAmerica Job ID: 460-157038-1

Laboratory: TestAmerica Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Water	Ferrous Iron

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Edison

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
NL-MW-3-20180525	460-157038-1	102	92	96	115
NL-MW-DUP-20180525	460-157038-2	95	84	89	108
NL-FB-20180525	460-157038-3	104	91	96	113
NL-TB-20180525	460-157038-4	104	92	96	115
	MB 460-524141/7	101	92	94	110
	MB 460-524327/12	97	85	89	108
	LCS 460-524141/4	93	84	89	108
	LCS 460-524327/3	94	84	89	108
	LCSD 460-524327/6	95	84	89	108
NL-MW-3-20180525 MS	460-157038-1 MS	96	83	91	113
NL-MW-3-20180525 MSD	460-157038-1 MSD	103	89	96	119

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0396440.D
 Lab ID: LCS 460-524141/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	20.0	16.9	85	56-131	
Bromomethane	20.0	25.0	125	10-150	
Vinyl chloride	20.0	18.1	91	62-138	
Chloroethane	20.0	26.7	133	52-150	
Methylene Chloride	20.0	18.6	93	77-123	
Acetone	100	84.7	85	39-150	
Carbon disulfide	20.0	17.9	89	69-133	
Trichlorofluoromethane	20.0	20.2	101	71-143	
1,1-Dichloroethene	20.0	18.5	93	74-123	
1,1-Dichloroethane	20.0	19.0	95	77-123	
trans-1,2-Dichloroethene	20.0	19.9	99	79-120	
cis-1,2-Dichloroethene	20.0	18.9	95	80-120	
Chloroform	20.0	19.6	98	80-120	
1,2-Dichloroethane	20.0	18.0	90	76-121	
2-Butanone	100	97.4	97	64-120	
1,1,1-Trichloroethane	20.0	19.5	98	75-125	
Carbon tetrachloride	20.0	19.2	96	70-132	
Bromodichloromethane	20.0	19.2	96	76-120	
1,2-Dichloropropane	20.0	19.1	95	77-123	
cis-1,3-Dichloropropene	20.0	18.2	91	77-120	
Trichloroethene	20.0	18.7	93	77-120	
Dibromochloromethane	20.0	18.1	90	73-120	
1,1,2-Trichloroethane	20.0	18.6	93	78-120	
Benzene	20.0	18.5	92	77-121	
trans-1,3-Dichloropropene	20.0	17.4	87	76-120	
Bromoform	20.0	18.2	91	53-120	
4-Methyl-2-pentanone	100	96.2	96	78-124	
2-Hexanone	100	93.2	93	71-125	
Tetrachloroethene	20.0	20.9	104	78-122	
1,1,2,2-Tetrachloroethane	20.0	18.3	92	74-120	
Toluene	20.0	18.5	93	80-120	
Chlorobenzene	20.0	18.3	91	80-120	
Ethylbenzene	20.0	18.9	95	80-120	
Styrene	20.0	18.5	93	80-120	
Xylenes, Total	40.0	37.8	95	80-120	
Freon TF	20.0	20.2	101	59-150	
MTBE	20.0	19.0	95	79-122	
Cyclohexane	20.0	19.0	95	56-150	
1,2-Dibromoethane	20.0	18.3	91	80-120	
1,3-Dichlorobenzene	20.0	18.1	90	80-120	
1,4-Dichlorobenzene	20.0	18.0	90	80-120	
1,2-Dichlorobenzene	20.0	18.2	91	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 0396440.D
Lab ID: LCS 460-524141/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	15.3	77	50-131	
1,2,4-Trichlorobenzene	20.0	21.0	105	80-124	
1,2-Dibromo-3-Chloropropane	20.0	15.9	80	55-134	
Isopropylbenzene	20.0	18.7	94	80-123	
Methylcyclohexane	20.0	18.1	91	61-145	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0396464.D
 Lab ID: LCS 460-524327/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloromethane	20.0	19.3	97	56-131	
Bromomethane	20.0	38.4	192	10-150	*
Vinyl chloride	20.0	19.8	99	62-138	
Chloroethane	20.0	23.6	118	52-150	
Methylene Chloride	20.0	19.0	95	77-123	
Acetone	100	87.5	88	39-150	
Carbon disulfide	20.0	20.1	101	69-133	
Trichlorofluoromethane	20.0	20.7	104	71-143	
1,1-Dichloroethene	20.0	19.8	99	74-123	
1,1-Dichloroethane	20.0	20.0	100	77-123	
trans-1,2-Dichloroethene	20.0	20.7	104	79-120	
cis-1,2-Dichloroethene	20.0	20.0	100	80-120	
Chloroform	20.0	20.5	102	80-120	
1,2-Dichloroethane	20.0	18.4	92	76-121	
2-Butanone	100	97.7	98	64-120	
1,1,1-Trichloroethane	20.0	20.4	102	75-125	
Carbon tetrachloride	20.0	21.0	105	70-132	
Bromodichloromethane	20.0	20.4	102	76-120	
1,2-Dichloropropane	20.0	19.7	98	77-123	
cis-1,3-Dichloropropene	20.0	18.7	93	77-120	
Trichloroethene	20.0	19.8	99	77-120	
Dibromochloromethane	20.0	19.2	96	73-120	
1,1,2-Trichloroethane	20.0	18.9	94	78-120	
Benzene	20.0	19.1	96	77-121	
trans-1,3-Dichloropropene	20.0	17.8	89	76-120	
Bromoform	20.0	19.0	95	53-120	
4-Methyl-2-pentanone	100	97.7	98	78-124	
2-Hexanone	100	95.2	95	71-125	
Tetrachloroethene	20.0	21.8	109	78-122	
1,1,2,2-Tetrachloroethane	20.0	18.5	93	74-120	
Toluene	20.0	19.4	97	80-120	
Chlorobenzene	20.0	19.1	96	80-120	
Ethylbenzene	20.0	20.0	100	80-120	
Styrene	20.0	19.0	95	80-120	
Xylenes, Total	40.0	39.5	99	80-120	
Freon TF	20.0	22.0	110	59-150	
MTBE	20.0	19.2	96	79-122	
Cyclohexane	20.0	21.0	105	56-150	
1,2-Dibromoethane	20.0	18.9	94	80-120	
1,3-Dichlorobenzene	20.0	18.8	94	80-120	
1,4-Dichlorobenzene	20.0	18.5	93	80-120	
1,2-Dichlorobenzene	20.0	18.8	94	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 0396464.D
Lab ID: LCS 460-524327/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20.0	19.3	97	50-131	
1,2,4-Trichlorobenzene	20.0	21.5	107	80-124	
1,2-Dibromo-3-Chloropropane	20.0	16.7	84	55-134	
Isopropylbenzene	20.0	19.6	98	80-123	
Methylcyclohexane	20.0	20.5	103	61-145	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: O396467.D
 Lab ID: LCSD 460-524327/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloromethane	20.0	18.7	93	3	30	56-131	
Bromomethane	20.0	39.3	197	2	30	10-150	*
Vinyl chloride	20.0	19.7	99	1	30	62-138	
Chloroethane	20.0	22.8	114	3	30	52-150	
Methylene Chloride	20.0	19.8	99	4	30	77-123	
Acetone	100	94.4	94	8	30	39-150	
Carbon disulfide	20.0	20.8	104	3	30	69-133	
Trichlorofluoromethane	20.0	20.3	102	2	30	71-143	
1,1-Dichloroethene	20.0	20.7	104	4	30	74-123	
1,1-Dichloroethane	20.0	19.8	99	1	30	77-123	
trans-1,2-Dichloroethene	20.0	21.3	106	2	30	79-120	
cis-1,2-Dichloroethene	20.0	20.1	100	1	30	80-120	
Chloroform	20.0	20.7	103	1	30	80-120	
1,2-Dichloroethane	20.0	18.8	94	2	30	76-121	
2-Butanone	100	103	103	5	30	64-120	
1,1,1-Trichloroethane	20.0	20.9	104	3	30	75-125	
Carbon tetrachloride	20.0	21.6	108	3	30	70-132	
Bromodichloromethane	20.0	21.1	106	3	30	76-120	
1,2-Dichloropropane	20.0	20.2	101	3	30	77-123	
cis-1,3-Dichloropropene	20.0	19.0	95	2	30	77-120	
Trichloroethene	20.0	20.6	103	4	30	77-120	
Dibromochloromethane	20.0	19.7	99	2	30	73-120	
1,1,2-Trichloroethane	20.0	19.2	96	2	30	78-120	
Benzene	20.0	19.6	98	2	30	77-121	
trans-1,3-Dichloropropene	20.0	18.6	93	4	30	76-120	
Bromoform	20.0	20.5	102	8	30	53-120	
4-Methyl-2-pentanone	100	104	104	6	30	78-124	
2-Hexanone	100	98.2	98	3	30	71-125	
Tetrachloroethene	20.0	22.5	113	3	30	78-122	
1,1,2,2-Tetrachloroethane	20.0	19.7	98	6	30	74-120	
Toluene	20.0	19.8	99	2	30	80-120	
Chlorobenzene	20.0	19.6	98	3	30	80-120	
Ethylbenzene	20.0	20.5	103	2	30	80-120	
Styrene	20.0	19.6	98	3	30	80-120	
Xylenes, Total	40.0	40.5	101	3	30	80-120	
Freon TF	20.0	22.7	113	3	30	59-150	
MTBE	20.0	19.6	98	2	30	79-122	
Cyclohexane	20.0	21.8	109	4	30	56-150	
1,2-Dibromoethane	20.0	19.5	98	3	30	80-120	
1,3-Dichlorobenzene	20.0	19.4	97	3	30	80-120	
1,4-Dichlorobenzene	20.0	19.2	96	3	30	80-120	
1,2-Dichlorobenzene	20.0	19.4	97	3	30	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0396467.D
 Lab ID: LCSD 460-524327/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dichlorodifluoromethane	20.0	19.2	96	1	30	50-131	
1,2,4-Trichlorobenzene	20.0	21.7	109	1	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	17.3	87	3	30	55-134	
Isopropylbenzene	20.0	20.3	101	3	30	80-123	
Methylcyclohexane	20.0	21.3	107	4	30	61-145	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0396476.D
 Lab ID: 460-157038-1 MS Client ID: NL-MW-3-20180525 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Chloromethane	100	1.1 U	60.6	61	56-131	
Bromomethane	100	0.90 U	208	208	10-150	*
Vinyl chloride	100	1.0 J	96.4	95	62-138	
Chloroethane	100	1.9 U	112	112	52-150	
Methylene Chloride	100	1.2 J	98.2	97	77-123	
Acetone	500	14 J	463	90	39-150	
Carbon disulfide	100	1.1 U	102	102	69-133	
Trichlorofluoromethane	100	0.75 U	99.6	100	71-143	
1,1-Dichloroethene	100	1.7 U	100	100	74-123	
1,1-Dichloroethane	100	1.2 U	98.1	98	77-123	
trans-1,2-Dichloroethene	100	5.7	111	106	79-120	
cis-1,2-Dichloroethene	100	29	126	97	80-120	
Chloroform	100	14	115	101	80-120	
1,2-Dichloroethane	100	1.3 U	92.1	92	76-121	
2-Butanone	500	11 U	512	102	64-120	
1,1,1-Trichloroethane	100	1.4 U	104	104	75-125	
Carbon tetrachloride	100	1.7 U	107	107	70-132	
Bromodichloromethane	100	0.75 U	104	104	76-120	
1,2-Dichloropropane	100	0.90 U	101	101	77-123	
cis-1,3-Dichloropropene	100	0.80 U	96.0	96	77-120	
Trichloroethene	100	940	870	-68	77-120	*
Dibromochloromethane	100	1.1 U	100	100	73-120	
1,1,2-Trichloroethane	100	0.40 U	96.8	97	78-120	
Benzene	100	6.0	104	98	77-121	
trans-1,3-Dichloropropene	100	0.95 U	91.2	91	76-120	
Bromoform	100	0.90 U	104	104	53-120	
4-Methyl-2-pentanone	500	3.2 U	528	106	78-124	
2-Hexanone	500	3.6 U	502	100	71-125	
Tetrachloroethene	100	1.2 J	114	113	78-122	
1,1,2,2-Tetrachloroethane	100	0.95 U	91.6	92	74-120	
Toluene	100	1.3 U	99.5	99	80-120	
Chlorobenzene	100	1.2 U	98.0	98	80-120	
Ethylbenzene	100	5.2	108	103	80-120	
Styrene	100	0.85 U	98.4	98	80-120	
Xylenes, Total	200	1.4 U	204	102	80-120	
Freon TF	100	1.7 U	112	112	59-150	
MTBE	100	0.91 J	95.5	95	79-122	
Cyclohexane	100	24	135	111	56-150	
1,2-Dibromoethane	100	0.95 U	97.1	97	80-120	
1,3-Dichlorobenzene	100	1.7 U	95.7	96	80-120	
1,4-Dichlorobenzene	100	1.7 U	94.0	94	80-120	
1,2-Dichlorobenzene	100	1.1 U	96.1	96	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 0396476.D
Lab ID: 460-157038-1 MS Client ID: NL-MW-3-20180525 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	100	0.70 U	93.6	94	50-131	
1,2,4-Trichlorobenzene	100	1.4 U	115	115	80-124	
1,2-Dibromo-3-Chloropropane	100	1.2 U	77.5	78	55-134	
Isopropylbenzene	100	3.3 J	107	104	80-123	
Methylcyclohexane	100	9.6	121	111	61-145	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: 0396477.D

Lab ID: 460-157038-1 MSD

Client ID: NL-MW-3-20180525 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloromethane	100	37.2	37	48	30	56-131	*
Bromomethane	100	212	212	2	30	10-150	*
Vinyl chloride	100	102	101	5	30	62-138	
Chloroethane	100	118	118	5	30	52-150	
Methylene Chloride	100	105	103	6	30	77-123	
Acetone	500	479	93	3	30	39-150	
Carbon disulfide	100	107	107	5	30	69-133	
Trichlorofluoromethane	100	106	106	6	30	71-143	
1,1-Dichloroethene	100	104	104	4	30	74-123	
1,1-Dichloroethane	100	108	108	10	30	77-123	
trans-1,2-Dichloroethene	100	116	110	4	30	79-120	
cis-1,2-Dichloroethene	100	131	102	4	30	80-120	
Chloroform	100	119	105	3	30	80-120	
1,2-Dichloroethane	100	98.3	98	6	30	76-121	
2-Butanone	500	552	110	8	30	64-120	
1,1,1-Trichloroethane	100	108	108	5	30	75-125	
Carbon tetrachloride	100	114	114	6	30	70-132	
Bromodichloromethane	100	110	110	5	30	76-120	
1,2-Dichloropropane	100	107	107	6	30	77-123	
cis-1,3-Dichloropropene	100	99.4	99	4	30	77-120	
Trichloroethene	100	913	-26	5	30	77-120	*
Dibromochloromethane	100	106	106	5	30	73-120	
1,1,2-Trichloroethane	100	101	101	5	30	78-120	
Benzene	100	110	104	5	30	77-121	
trans-1,3-Dichloropropene	100	96.5	96	6	30	76-120	
Bromoform	100	108	108	4	30	53-120	
4-Methyl-2-pentanone	500	569	114	8	30	78-124	
2-Hexanone	500	549	110	9	30	71-125	
Tetrachloroethene	100	119	118	4	30	78-122	
1,1,2,2-Tetrachloroethane	100	96.3	96	5	30	74-120	
Toluene	100	103	103	4	30	80-120	
Chlorobenzene	100	103	103	5	30	80-120	
Ethylbenzene	100	114	109	5	30	80-120	
Styrene	100	103	103	5	30	80-120	
Xylenes, Total	200	212	106	4	30	80-120	
Freon TF	100	115	115	2	30	59-150	
MTBE	100	102	101	7	30	79-122	
Cyclohexane	100	140	116	4	30	56-150	
1,2-Dibromoethane	100	101	101	4	30	80-120	
1,3-Dichlorobenzene	100	101	101	6	30	80-120	
1,4-Dichlorobenzene	100	99.0	99	5	30	80-120	
1,2-Dichlorobenzene	100	102	102	6	30	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 0396477.D
 Lab ID: 460-157038-1 MSD Client ID: NL-MW-3-20180525 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Dichlorodifluoromethane	100	98.5	98	5	30	50-131	
1,2,4-Trichlorobenzene	100	120	120	4	30	80-124	
1,2-Dibromo-3-Chloropropane	100	85.1	85	9	30	55-134	
Isopropylbenzene	100	111	108	4	30	80-123	
Methylcyclohexane	100	127	118	5	30	61-145	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab File ID: O396443.D Lab Sample ID: MB 460-524141/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: CVOAMS12 Date Analyzed: 06/01/2018 02:13
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-524141/4	O396440.D	06/01/2018 00:49
NL-TB-20180525	460-157038-4	O396445.D	06/01/2018 03:16
NL-FB-20180525	460-157038-3	O396447.D	06/01/2018 04:12

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab File ID: O396473.D Lab Sample ID: MB 460-524327/12
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: CVOAMS12 Date Analyzed: 06/01/2018 18:20
GC Column: DB-624 ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-524327/3	O396464.D	06/01/2018 12:14
	LCSD 460-524327/6	O396467.D	06/01/2018 13:37
NL-MW-3-20180525	460-157038-1	O396474.D	06/01/2018 18:56
NL-MW-DUP-20180525	460-157038-2	O396475.D	06/01/2018 19:24
NL-MW-3-20180525 MS	460-157038-1 MS	O396476.D	06/01/2018 19:52
NL-MW-3-20180525 MSD	460-157038-1 MSD	O396477.D	06/01/2018 20:19

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab File ID: O39391.D BFB Injection Date: 05/24/2018
 Instrument ID: CVOAMS12 BFB Injection Time: 12:58
 Analysis Batch No.: 522184

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.6
75	30.0 - 60.0 % of mass 95	50.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.1 (0.1) 1
174	50.0 - 120.00 % of mass 95	93.4
175	5.0 - 9.0 % of mass 174	7.2 (7.7) 1
176	95.0 - 101.0 % of mass 174	91.0 (97.4) 1
177	5.0 - 9.0 % of mass 176	5.8 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD7 460-522184/3	O39393.D	05/24/2018	13:51
	STD1 460-522184/4	O39394.D	05/24/2018	14:19
	STD5 460-522184/5	O39395.D	05/24/2018	14:48
	STD20 460-522184/6	O39396.D	05/24/2018	15:17
	STD50 460-522184/7	O39397.D	05/24/2018	15:46
	STD200 460-522184/8	O39398.D	05/24/2018	16:14
	STD500 460-522184/9	O39399.D	05/24/2018	16:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab File ID: O396437.D BFB Injection Date: 05/31/2018
 Instrument ID: CVOAMS12 BFB Injection Time: 23:31
 Analysis Batch No.: 524141

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.5
75	30.0 - 60.0 % of mass 95	47.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.1
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	92.6
175	5.0 - 9.0 % of mass 174	7.3 (7.9) 1
176	95.0 - 101.0 % of mass 174	91.7 (99.0) 1
177	5.0 - 9.0 % of mass 176	6.2 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-524141/3	O396439.D	06/01/2018	00:22
	LCS 460-524141/4	O396440.D	06/01/2018	00:49
	MB 460-524141/7	O396443.D	06/01/2018	02:13
NL-TB-20180525	460-157038-4	O396445.D	06/01/2018	03:16
NL-FB-20180525	460-157038-3	O396447.D	06/01/2018	04:12

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab File ID: O396462.D BFB Injection Date: 06/01/2018
Instrument ID: CVOAMS12 BFB Injection Time: 11:17
Analysis Batch No.: 524327

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.6
75	30.0 - 60.0 % of mass 95	46.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.2 (0.2) 1
174	50.0 - 120.00 % of mass 95	104.1
175	5.0 - 9.0 % of mass 174	7.8 (7.5) 1
176	95.0 - 101.0 % of mass 174	101.2 (97.2) 1
177	5.0 - 9.0 % of mass 176	6.2 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-524327/2	O396463.D	06/01/2018	11:46
	LCS 460-524327/3	O396464.D	06/01/2018	12:14
	LCSD 460-524327/6	O396467.D	06/01/2018	13:37
	MB 460-524327/12	O396473.D	06/01/2018	18:20
NL-MW-3-20180525	460-157038-1	O396474.D	06/01/2018	18:56
NL-MW-DUP-20180525	460-157038-2	O396475.D	06/01/2018	19:24
NL-MW-3-20180525 MS	460-157038-1 MS	O396476.D	06/01/2018	19:52
NL-MW-3-20180525 MSD	460-157038-1 MSD	O396477.D	06/01/2018	20:19

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Sample No.: CCVIS 460-524141/3 Date Analyzed: 06/01/2018 00:22
 Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): O396439.D Heated Purge: (Y/N) N
 Calibration ID: 68786

	TBA _d 9		BUT		FB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	344222	2.12	281272	2.97	473166	4.03	
UPPER LIMIT	688444	2.62	562544	3.47	946332	4.53	
LOWER LIMIT	172111	1.62	140636	2.47	236583	3.53	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-524141/4		430392	2.12	334324	2.97	621707	4.02
MB 460-524141/7		372570	2.10	297704	2.97	551032	4.03
460-157038-4	NL-TB-20180525	350487	2.10	283515	2.97	544708	4.03
460-157038-3	NL-FB-20180525	370851	2.10	291151	2.97	551805	4.03

TBA_d9 = TBA-d₉ (IS)
 BUT = 2-Butanone-d₅
 FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Sample No.: CCVIS 460-524141/3 Date Analyzed: 06/01/2018 00:22
 Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): O396439.D Heated Purge: (Y/N) N
 Calibration ID: 68786

	DXE		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	41429	4.75	453484	7.72	292887	11.41	
UPPER LIMIT	82858	5.25	906968	8.22	585774	11.91	
LOWER LIMIT	20715	4.25	226742	7.22	146444	10.91	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-524141/4		54875	4.75	603172	7.72	399805	11.41
MB 460-524141/7		46468	4.75	542787	7.72	346272	11.41
460-157038-4	NL-TB-20180525	44214	4.75	527882	7.72	343427	11.41
460-157038-3	NL-FB-20180525	46166	4.75	540679	7.72	349057	11.41

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Sample No.: CCVIS 460-524327/2 Date Analyzed: 06/01/2018 11:46
 Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): O396463.D Heated Purge: (Y/N) N
 Calibration ID: 68786

		TBA _d 9		BUT		FB		
		AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD		361573	2.10	294936	2.97	605788	4.03	
UPPER LIMIT		723146	2.60	589872	3.47	1211576	4.53	
LOWER LIMIT		180787	1.60	147468	2.47	302894	3.53	
LAB SAMPLE ID		CLIENT SAMPLE ID						
LCS 460-524327/3		392685	2.11	315678	2.97	590620	4.03	
LCSD 460-524327/6		384164	2.11	312564	2.97	586506	4.03	
MB 460-524327/12		386628	2.11	290614	2.97	573162	4.03	
460-157038-1		NL-MW-3-20180525	332454	2.11	259991	2.97	518282	4.03
460-157038-2		NL-MW-DUP-20180525	379356	2.11	298819	2.97	587244	4.03
460-157038-1 MS		NL-MW-3-20180525 MS	364628	2.11	299240	2.97	595434	4.03
460-157038-1 MSD		NL-MW-3-20180525 MSD	332058	2.11	273371	2.97	550220	4.03

TBA_d9 = TBA-d₉ (IS)
 BUT = 2-Butanone-d₅
 FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Sample No.: CCVIS 460-524327/2 Date Analyzed: 06/01/2018 11:46
 Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm)
 Lab File ID (Standard): O396463.D Heated Purge: (Y/N) N
 Calibration ID: 68786

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		48498	4.75	596061	7.72	387262	11.41
UPPER LIMIT		96996	5.25	1192122	8.22	774524	11.91
LOWER LIMIT		24249	4.25	298031	7.22	193631	10.91
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-524327/3		51054	4.75	581583	7.72	378852	11.41
LCSD 460-524327/6		49766	4.75	579363	7.72	372235	11.41
MB 460-524327/12		45413	4.75	551194	7.72	351632	11.41
460-157038-1	NL-MW-3-20180525	37168	4.75	501146	7.72	320785	11.41
460-157038-2	NL-MW-DUP-20180525	43298	4.75	568977	7.72	361092	11.41
460-157038-1 MS	NL-MW-3-20180525 MS	44321	4.75	579032	7.72	389003	11.41
460-157038-1 MSD	NL-MW-3-20180525 MSD	39770	4.75	537311	7.72	354315	11.41

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-157038-1</u>
SDG No.: _____	
Client Sample ID: <u>NL-MW-3-20180525</u>	Lab Sample ID: <u>460-157038-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>O396474.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>05/25/2018 11:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>06/01/2018 18:56</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>524327</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.1	U	5.0	1.1
74-83-9	Bromomethane	0.90	U *	5.0	0.90
75-01-4	Vinyl chloride	1.0	J	5.0	0.30
75-00-3	Chloroethane	1.9	U	5.0	1.9
75-09-2	Methylene Chloride	1.2	J	5.0	1.1
67-64-1	Acetone	14	J	25	5.4
75-15-0	Carbon disulfide	1.1	U	5.0	1.1
75-69-4	Trichlorofluoromethane	0.75	U	5.0	0.75
75-35-4	1,1-Dichloroethene	1.7	U	5.0	1.7
75-34-3	1,1-Dichloroethane	1.2	U	5.0	1.2
156-60-5	trans-1,2-Dichloroethene	5.7		5.0	0.90
156-59-2	cis-1,2-Dichloroethene	29		5.0	1.3
67-66-3	Chloroform	14		5.0	1.1
107-06-2	1,2-Dichloroethane	1.3	U	5.0	1.3
78-93-3	2-Butanone	11	U	25	11
71-55-6	1,1,1-Trichloroethane	1.4	U	5.0	1.4
56-23-5	Carbon tetrachloride	1.7	U	5.0	1.7
75-27-4	Bromodichloromethane	0.75	U	5.0	0.75
78-87-5	1,2-Dichloropropane	0.90	U	5.0	0.90
10061-01-5	cis-1,3-Dichloropropene	0.80	U	5.0	0.80
79-01-6	Trichloroethene	940		5.0	1.1
124-48-1	Dibromochloromethane	1.1	U	5.0	1.1
79-00-5	1,1,2-Trichloroethane	0.40	U	5.0	0.40
71-43-2	Benzene	6.0		5.0	0.45
10061-02-6	trans-1,3-Dichloropropene	0.95	U	5.0	0.95
75-25-2	Bromoform	0.90	U	5.0	0.90
108-10-1	4-Methyl-2-pentanone	3.2	U	25	3.2
591-78-6	2-Hexanone	3.6	U	25	3.6
127-18-4	Tetrachloroethene	1.2	J	5.0	0.60
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	5.0	0.95
108-88-3	Toluene	1.3	U	5.0	1.3
108-90-7	Chlorobenzene	1.2	U	5.0	1.2
100-41-4	Ethylbenzene	5.2		5.0	1.5
100-42-5	Styrene	0.85	U	5.0	0.85
1330-20-7	Xylenes, Total	1.4	U	10	1.4
76-13-1	Freon TF	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Client Sample ID: NL-MW-3-20180525 Lab Sample ID: 460-157038-1
 Matrix: Water Lab File ID: O396474.D
 Analysis Method: 8260C Date Collected: 05/25/2018 11:30
 Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 18:56
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.91	J	5.0	0.65
110-82-7	Cyclohexane	24		5.0	1.3
106-93-4	1,2-Dibromoethane	0.95	U	5.0	0.95
541-73-1	1,3-Dichlorobenzene	1.7	U	5.0	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	5.0	1.7
95-50-1	1,2-Dichlorobenzene	1.1	U	5.0	1.1
75-71-8	Dichlorodifluoromethane	0.70	U	5.0	0.70
120-82-1	1,2,4-Trichlorobenzene	1.4	U	5.0	1.4
96-12-8	1,2-Dibromo-3-Chloropropane	1.2	U	5.0	1.2
98-82-8	Isopropylbenzene	3.3	J	5.0	1.6
108-87-2	Methylcyclohexane	9.6		5.0	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	Bromofluorobenzene	115		77-124
1868-53-7	Dibromofluoromethane (Surr)	102		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D
 Lims ID: 460-157038-B-1
 Client ID: NL-MW-3-20180525
 Sample Type: Client
 Inject. Date: 01-Jun-2018 18:56:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 460-157038-B-1
 Misc. Info.: 460-0073036-013
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 19:50:11 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: martineze

Date: 01-Jun-2018 19:17:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Vinyl chloride	62	1.078	1.071	0.007	42	657	0.2056	
10 Pentane	72	1.514	1.507	0.007	96	677	1.45	
18 Acetone	58	1.793	1.800	-0.007	67	843	2.88	Ma
21 Isopropyl alcohol	45	1.893	1.893	0.000	96	3026	14.6	
26 Methylene Chloride	84	2.072	2.072	0.000	56	825	0.2350	
* 27 TBA-d9 (IS)	65	2.108	2.101	0.007	0	332454	1000.0	
28 2-Methyl-2-propanol	59	2.158	2.158	0.000	92	3587	8.94	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	90	3652	1.15	
31 Methyl tert-butyl ether	73	2.272	2.265	0.007	36	1799	0.1828	
32 Hexane	57	2.458	2.458	0.000	84	842	0.2740	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	259991	250.0	
40 cis-1,2-Dichloroethene	96	3.002	3.002	0.000	98	19175	5.77	
48 Chloroform	83	3.273	3.266	0.007	99	13281	2.77	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	130268	51.0	
51 Cyclohexane	84	3.474	3.473	0.001	86	17831	4.75	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	128199	46.2	
56 Benzene	78	3.760	3.759	0.001	96	13381	1.20	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	518282	50.0	
64 Trichloroethene	95	4.403	4.396	0.007	95	584531	187.7	
66 Methylcyclohexane	83	4.596	4.603	-0.007	94	8481	1.92	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	37168	1000.0	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	520347	47.8	
84 Tetrachloroethene	166	6.570	6.570	0.000	84	914	0.2393	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	84	501146	50.0	
93 Ethylbenzene	106	7.971	7.971	0.000	97	5216	1.04	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	9906	0.6546	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	266895	57.6	
106 N-Propylbenzene	91	10.023	10.016	0.007	99	5927	0.3480	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	320785	50.0	
119 1,2,3-Trimethylbenzene	105	11.560	11.560	0.000	96	5658	0.4717	
121 2,3-Dihydroindene	117	11.789	11.789	0.000	94	5054	0.3432	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
123 p-Diethylbenzene	119	11.982	11.968	0.014	89	1505	0.2247	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	95	1673	0.2195	
S 132 1,2-Dichloroethene, Total	100				0		6.92	
S 134 Total BTEX	1				0		2.23	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00178

Amount Added: 1.00

Units: uL

8260ISNEW_00122

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Worklist Smp#: 13

Client ID: NL-MW-3-20180525

Purge Vol: 5.000 mL

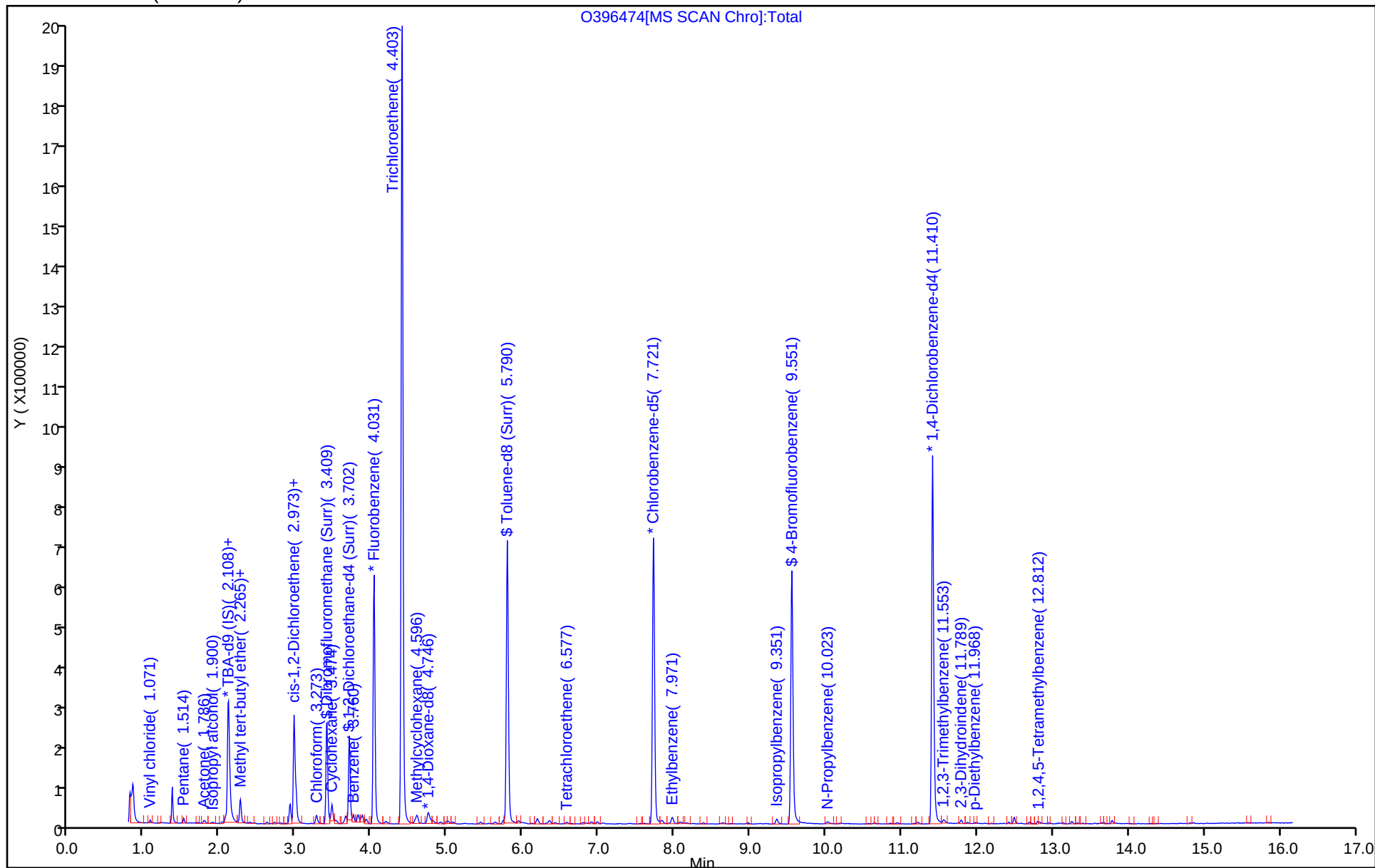
Dil. Factor: 5.0000

ALS Bottle#: 12

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#: 12 Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

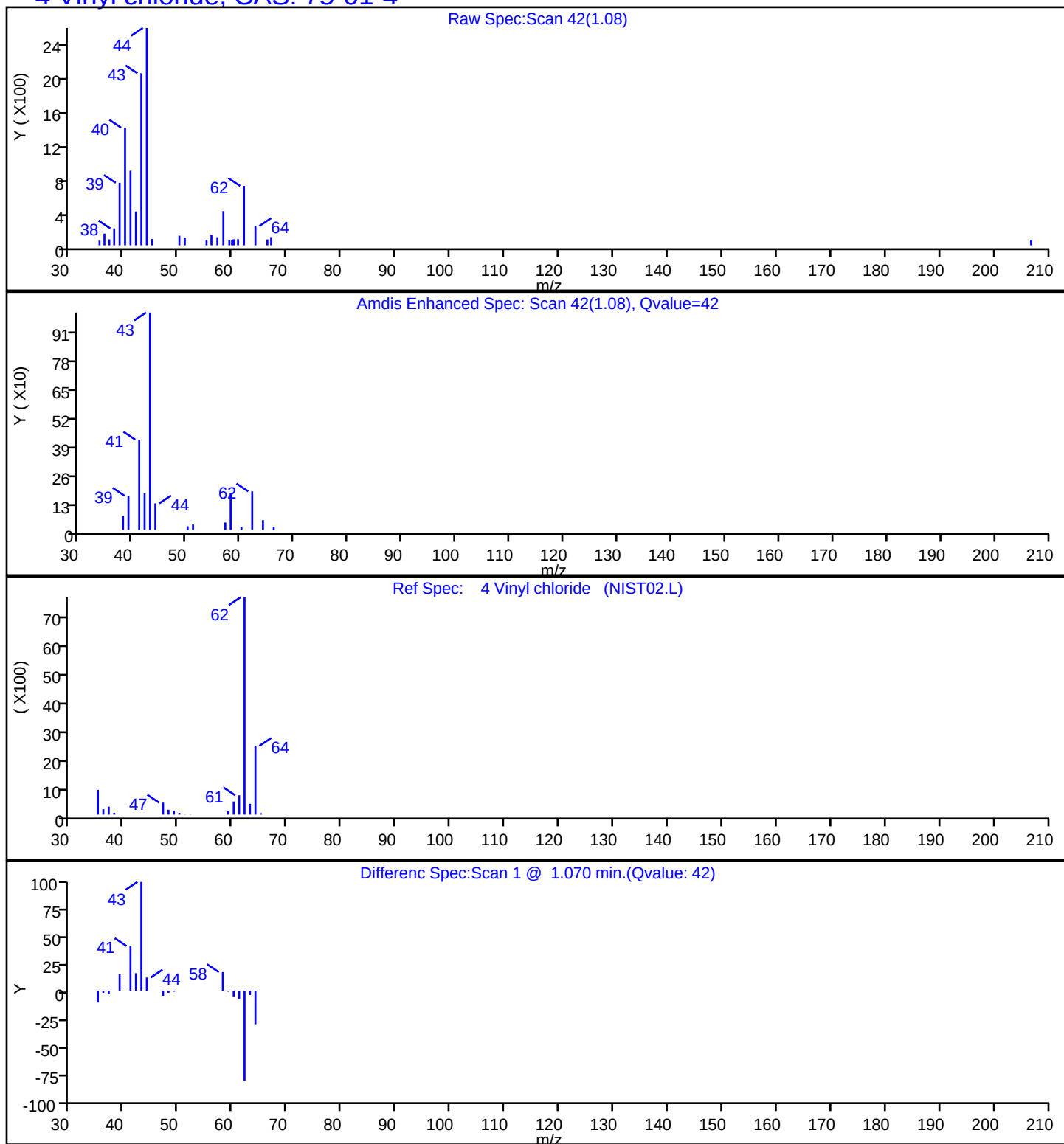
Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

4 Vinyl chloride, CAS: 75-01-4



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

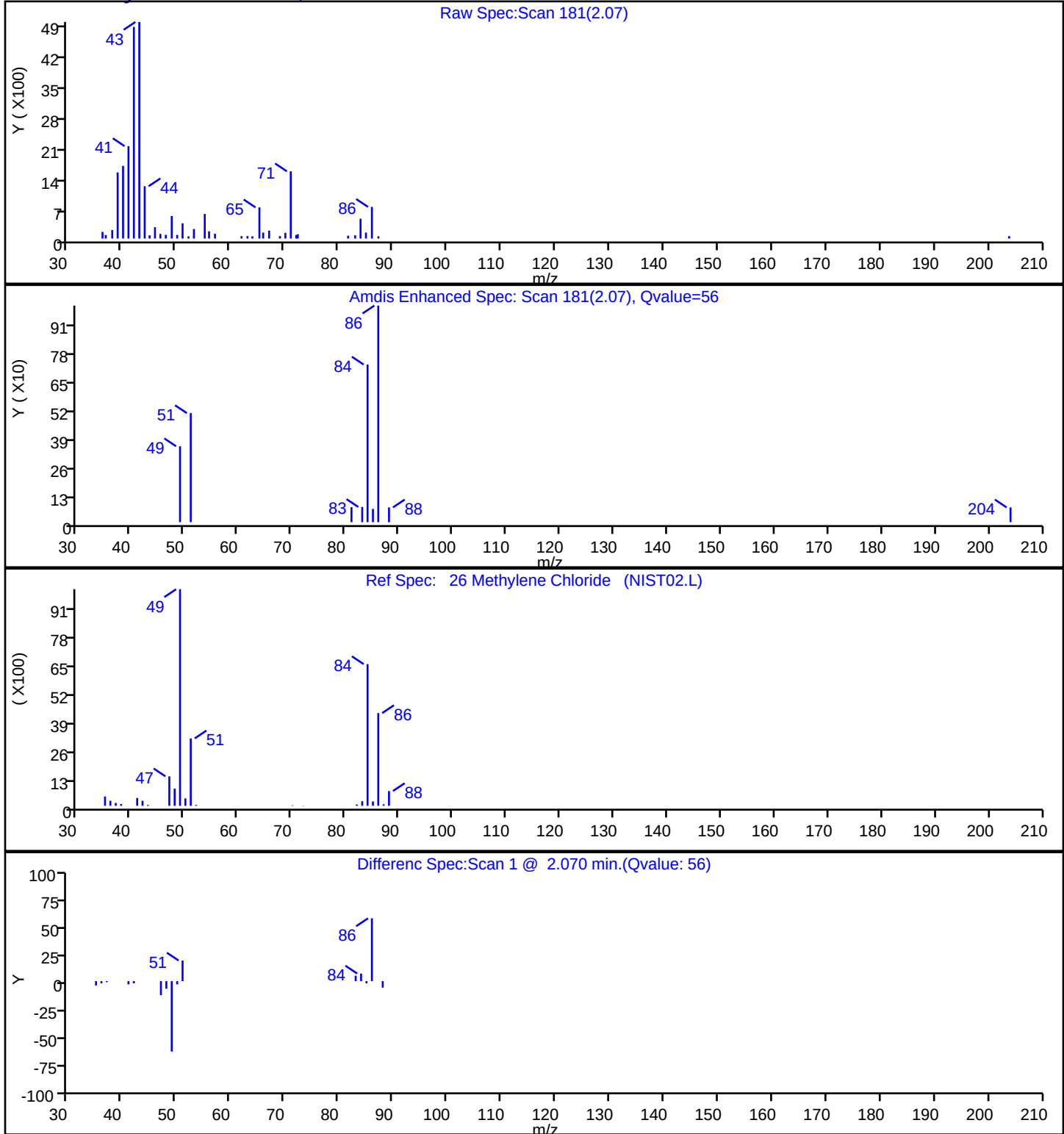
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

26 Methylene Chloride, CAS: 75-09-2

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

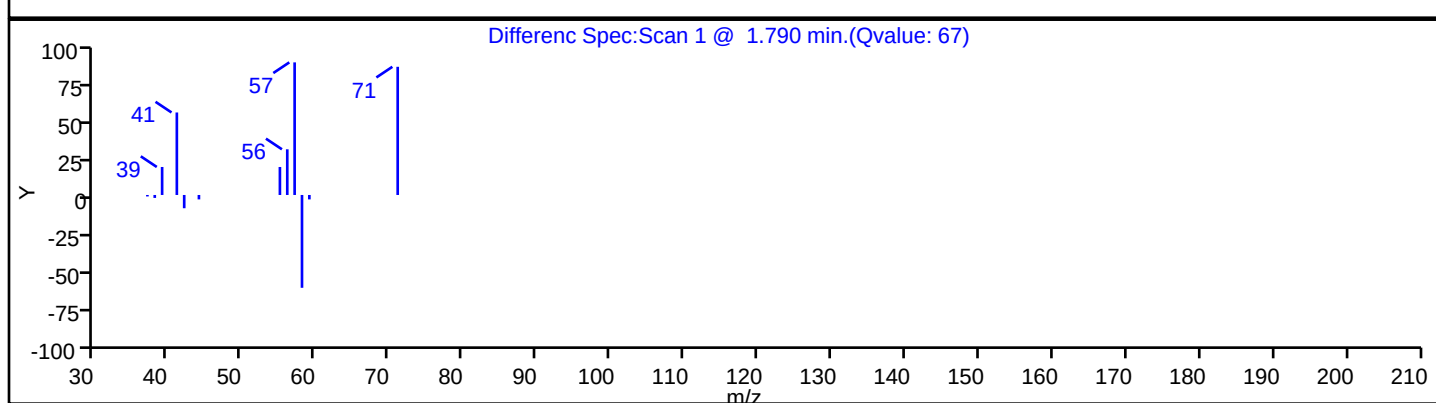
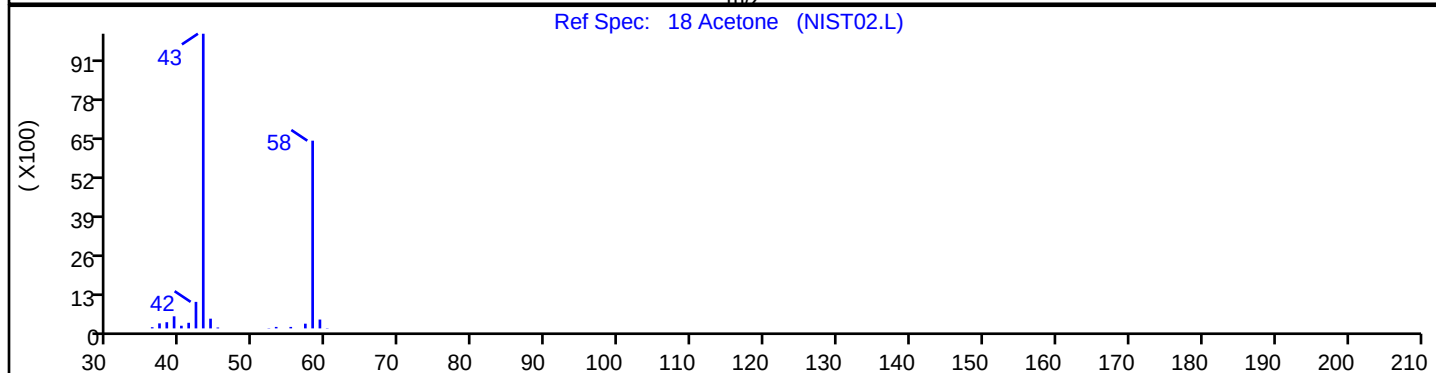
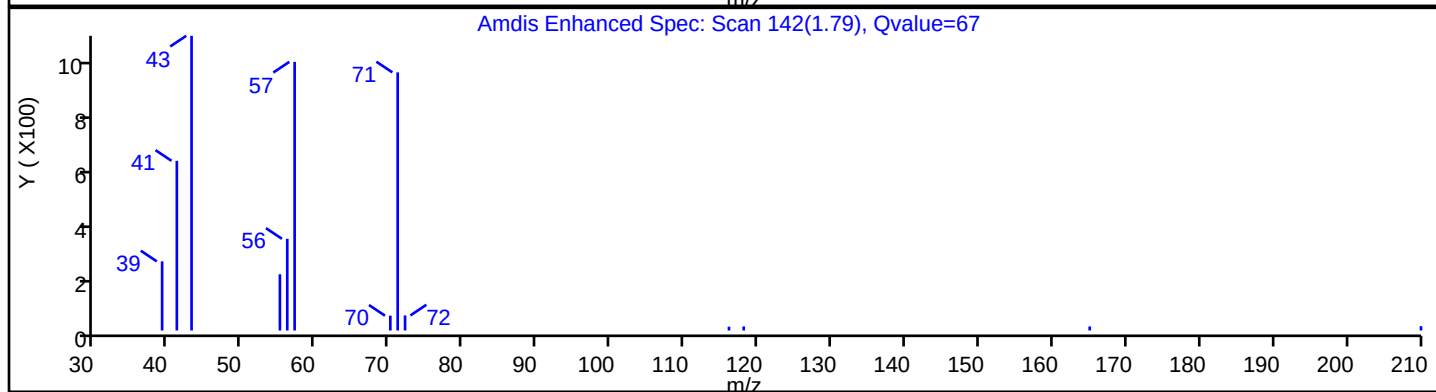
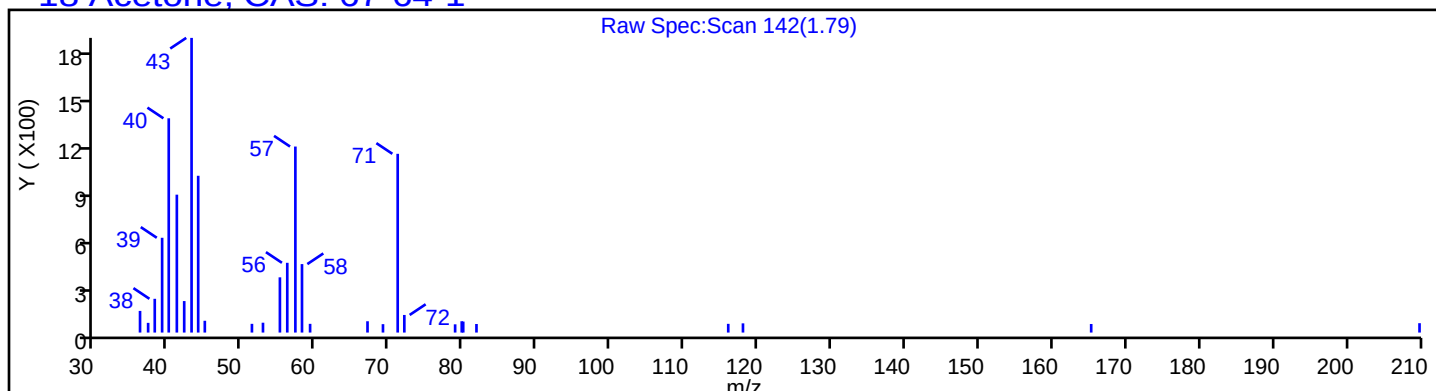
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

18 Acetone, CAS: 67-64-1

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

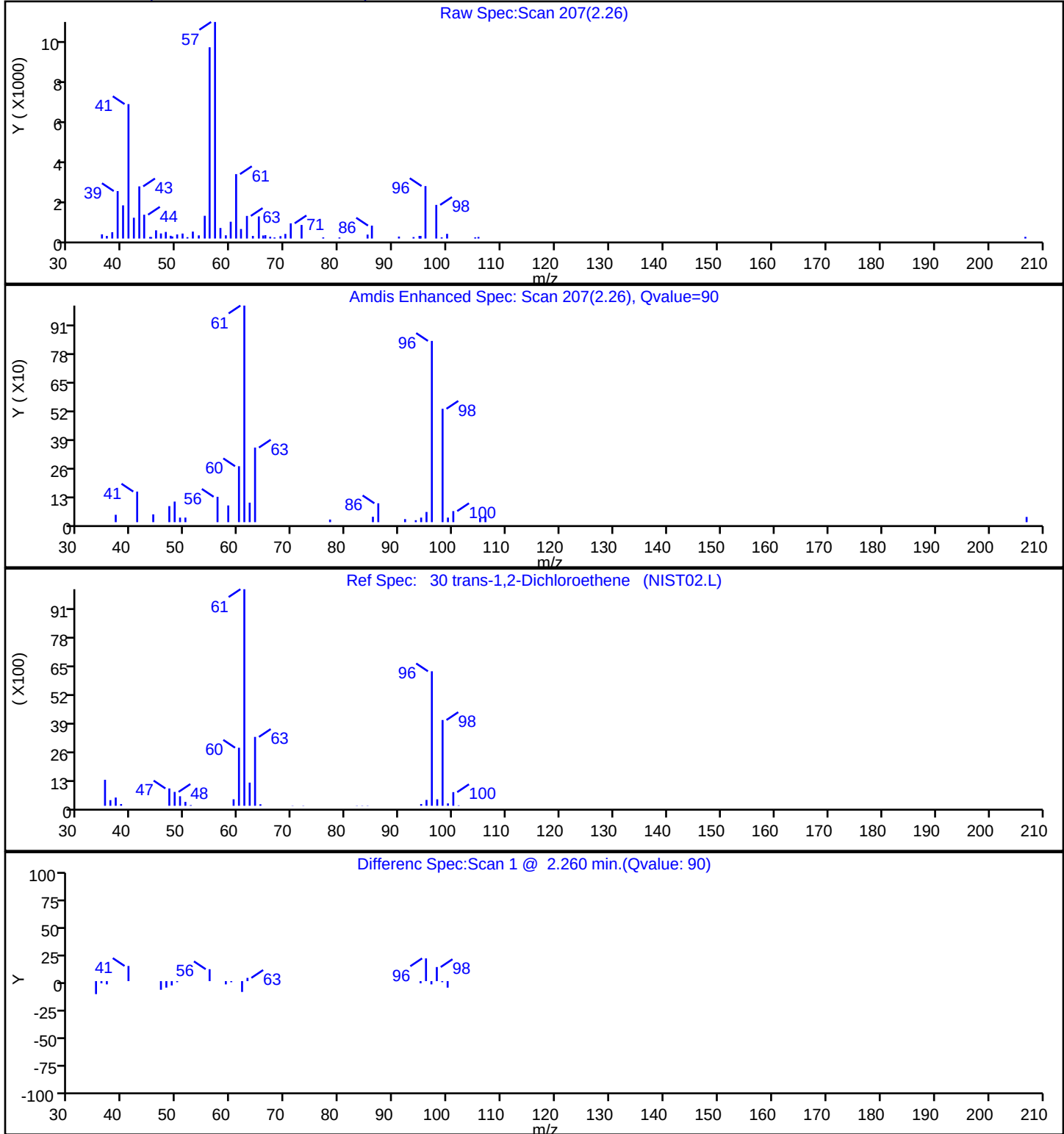
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

30 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

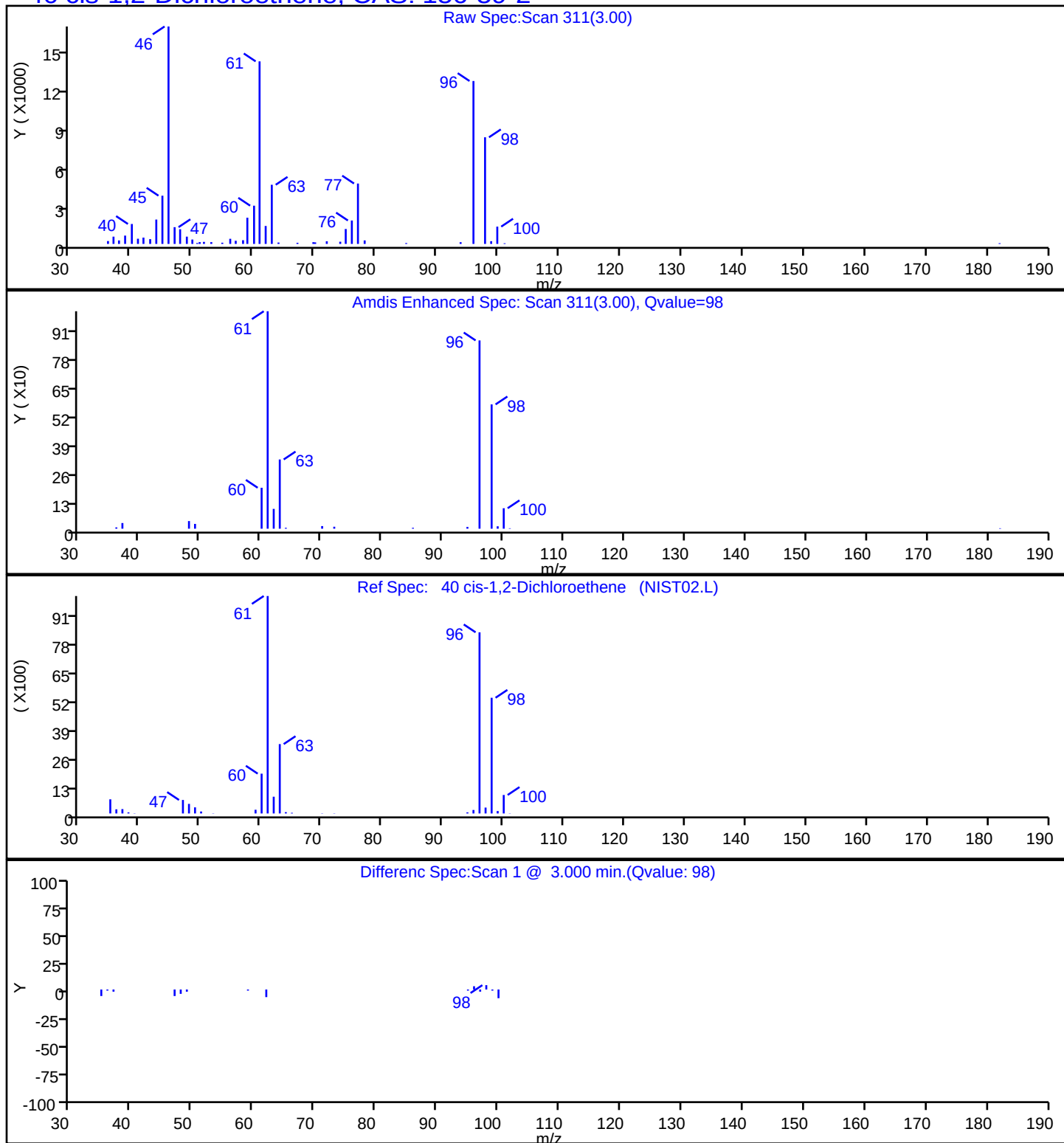
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

40 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#: 12 Worklist Smp#: 13

Purge Vol: 5.000 mL

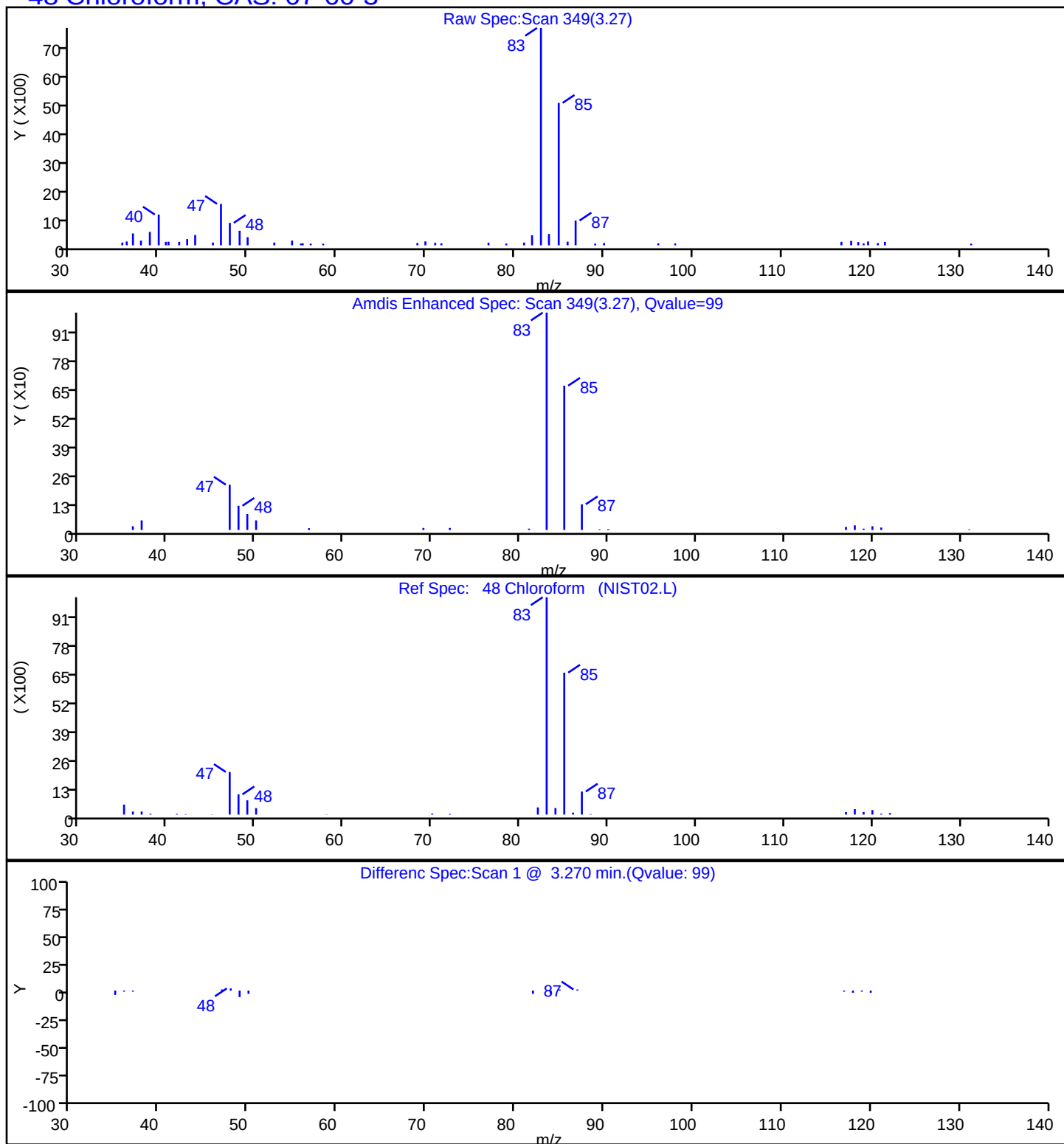
Dil. Factor: 5.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

48 Chloroform, CAS: 67-66-3

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

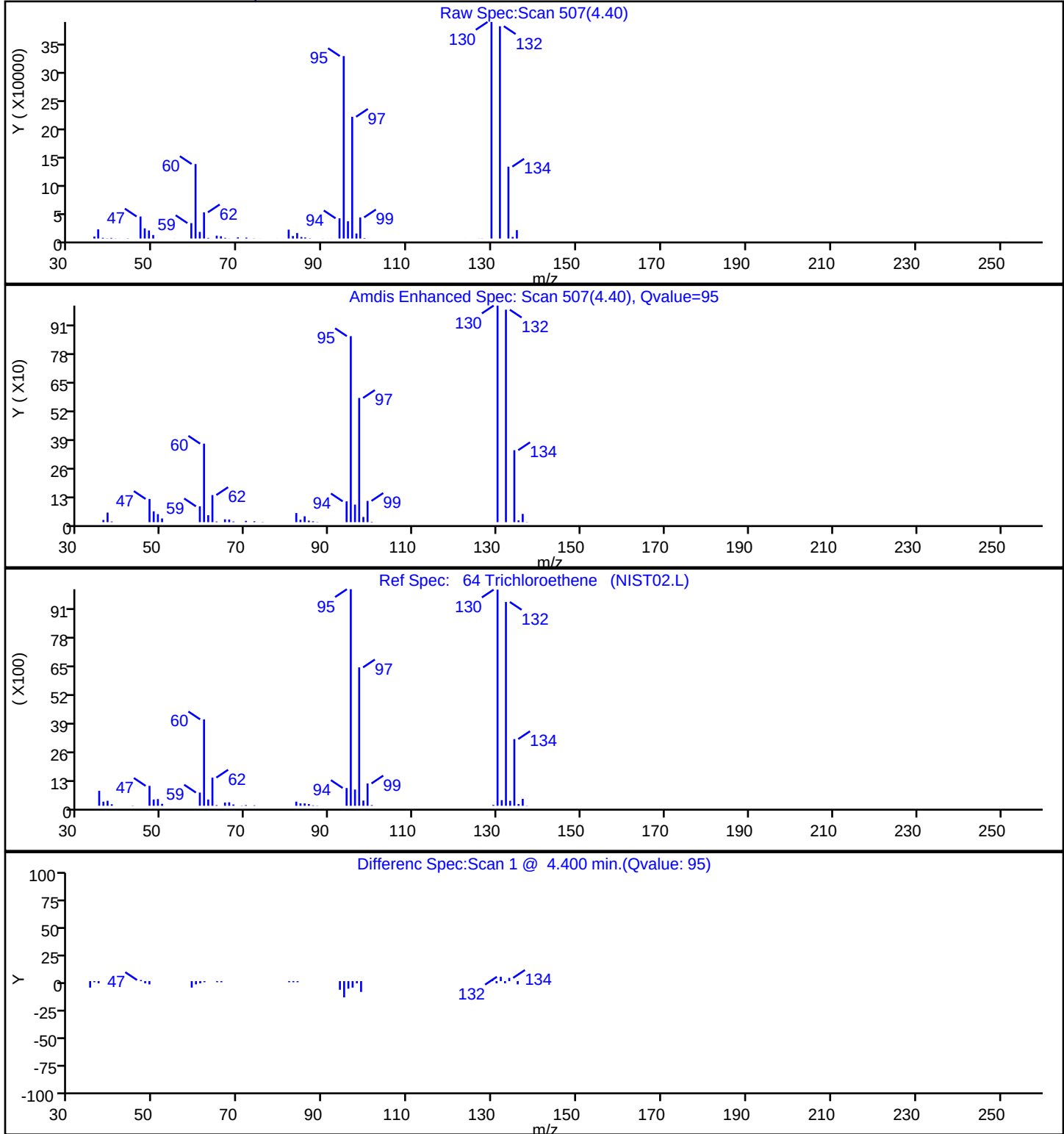
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

64 Trichloroethene, CAS: 79-01-6

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

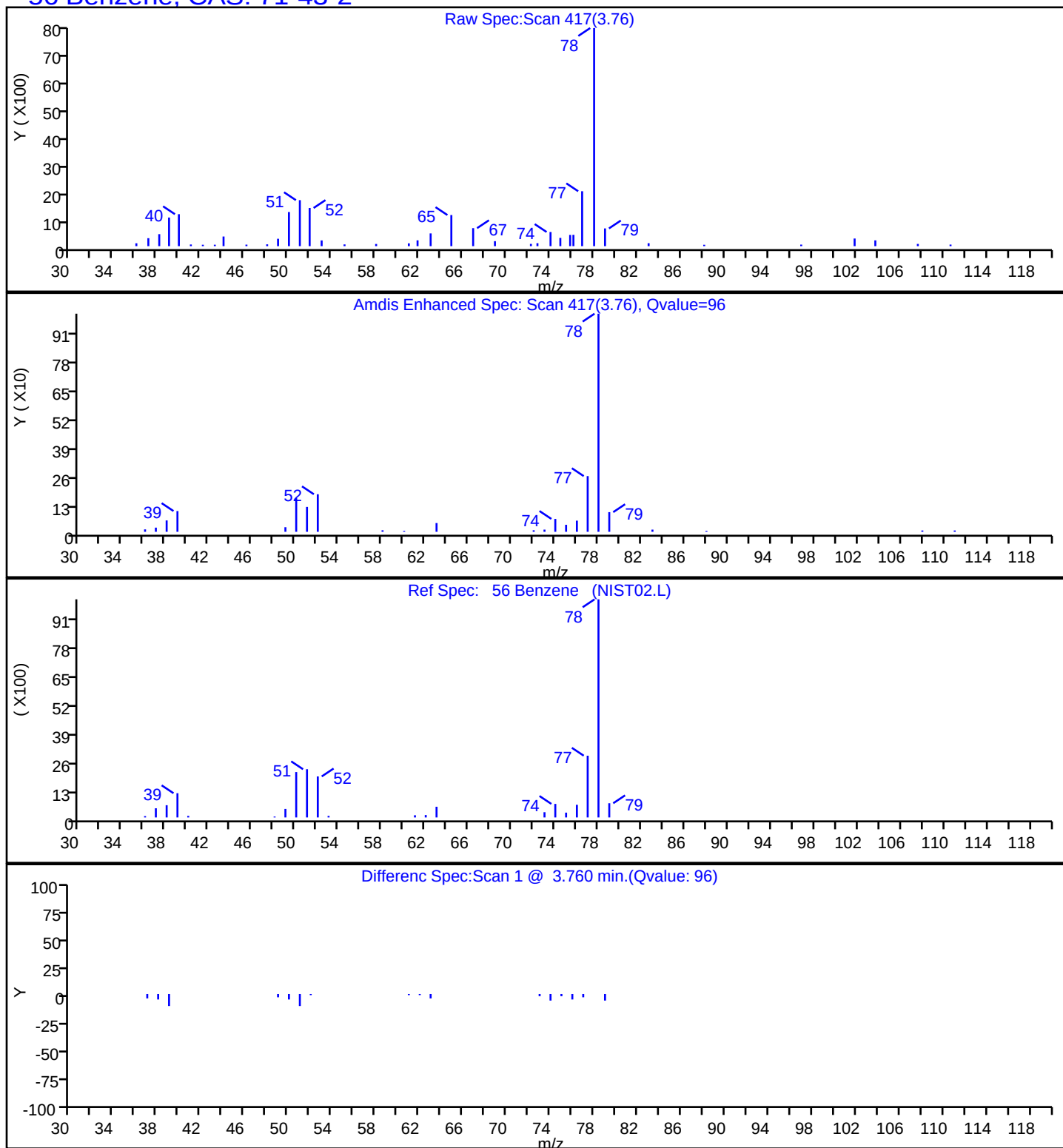
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

56 Benzene, CAS: 71-43-2

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

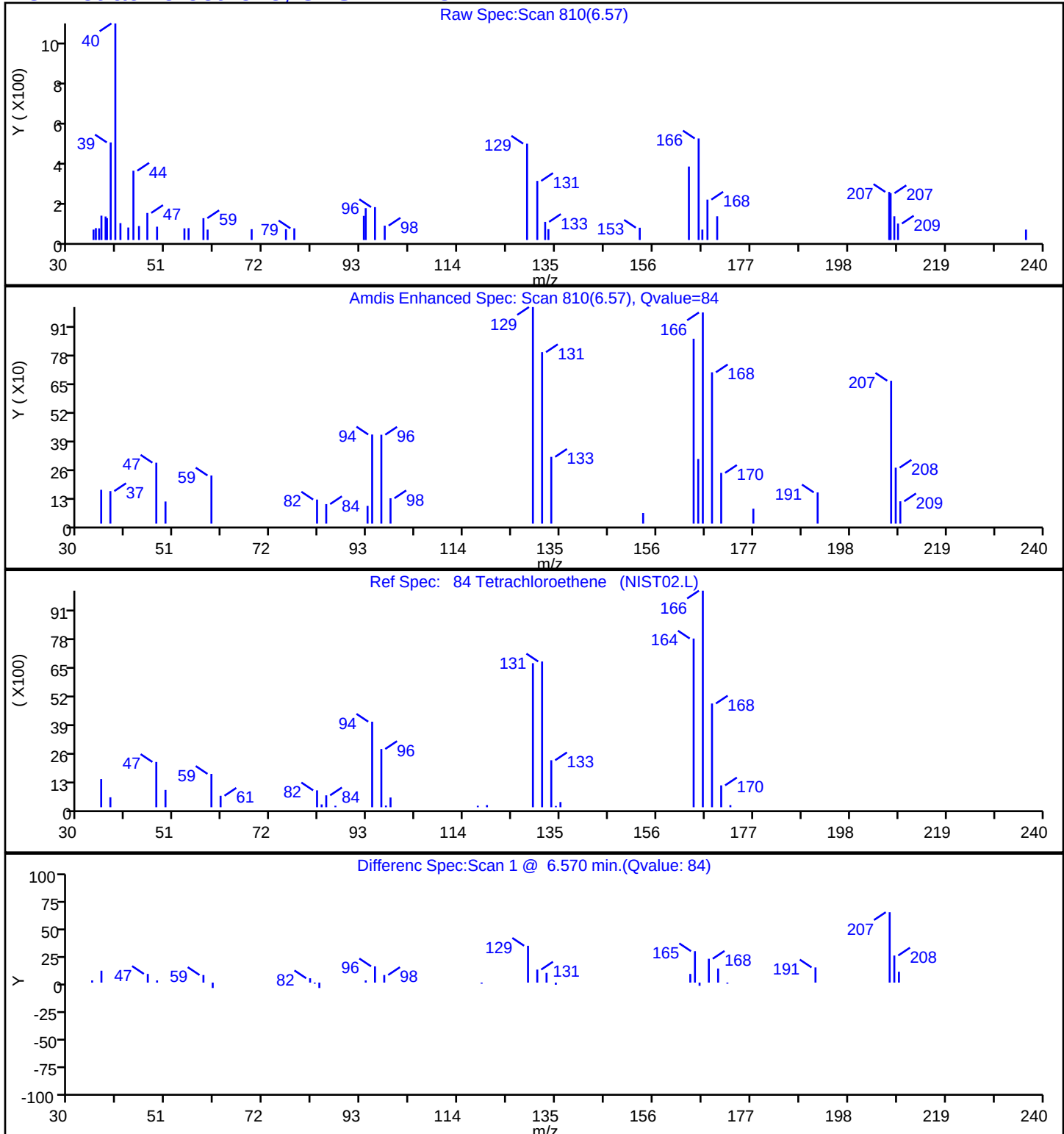
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

84 Tetrachloroethene, CAS: 127-18-4

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#: 12 Worklist Smp#: 13

Purge Vol: 5.000 mL

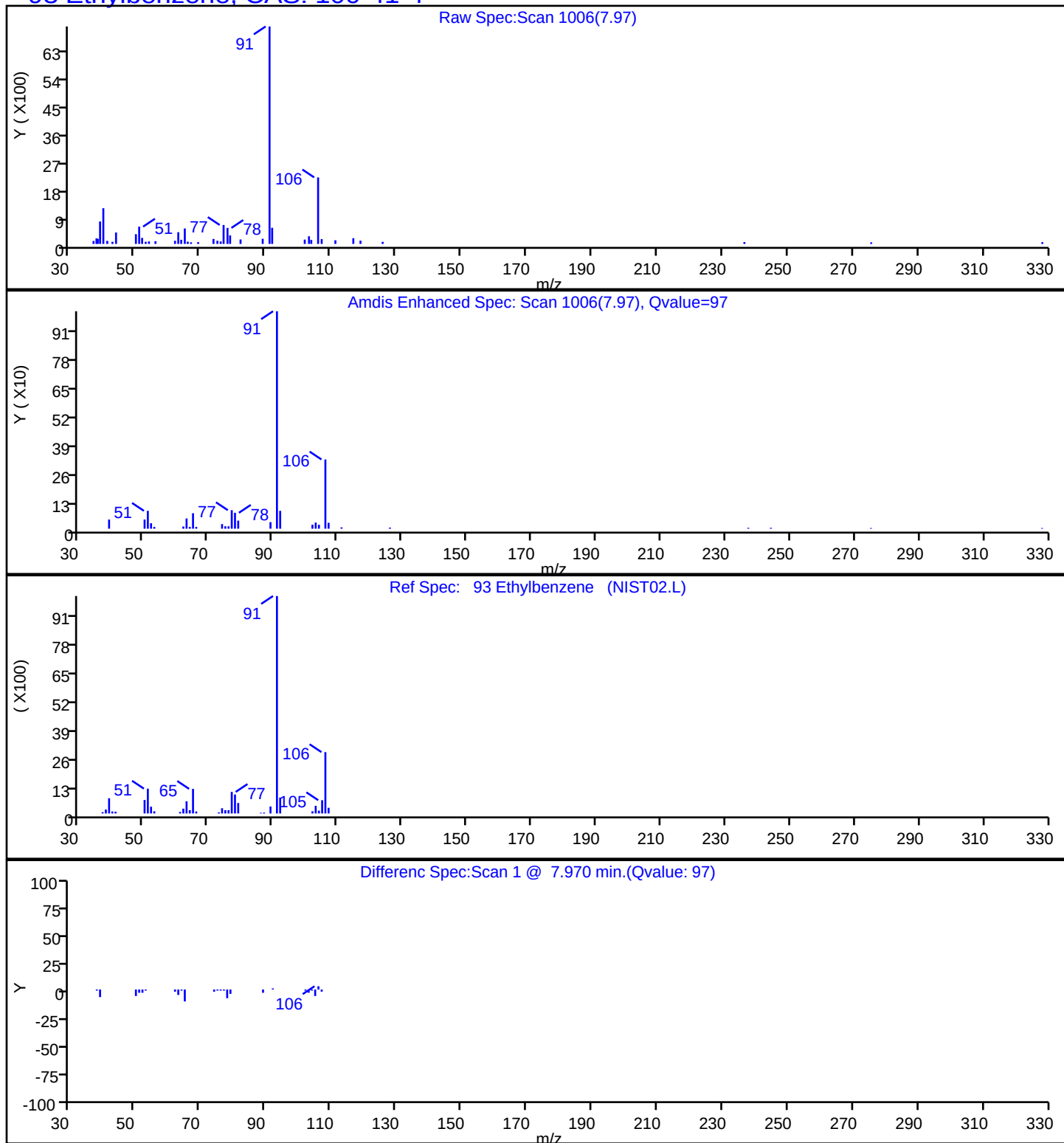
Dil. Factor: 5.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

93 Ethylbenzene, CAS: 100-41-4

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

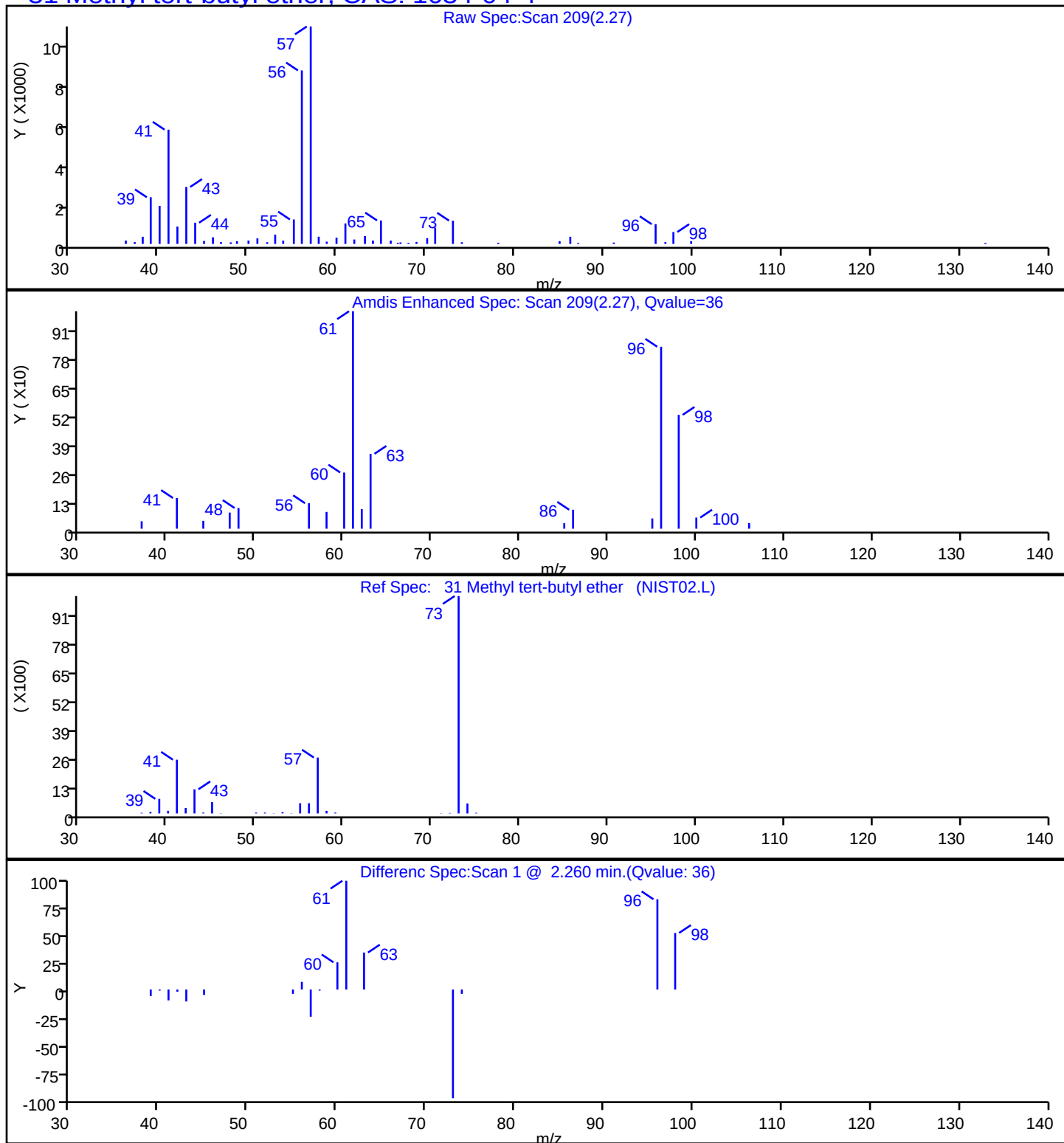
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

31 Methyl tert-butyl ether, CAS: 1634-04-4

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#: 12 Worklist Smp#: 13

Purge Vol: 5.000 mL

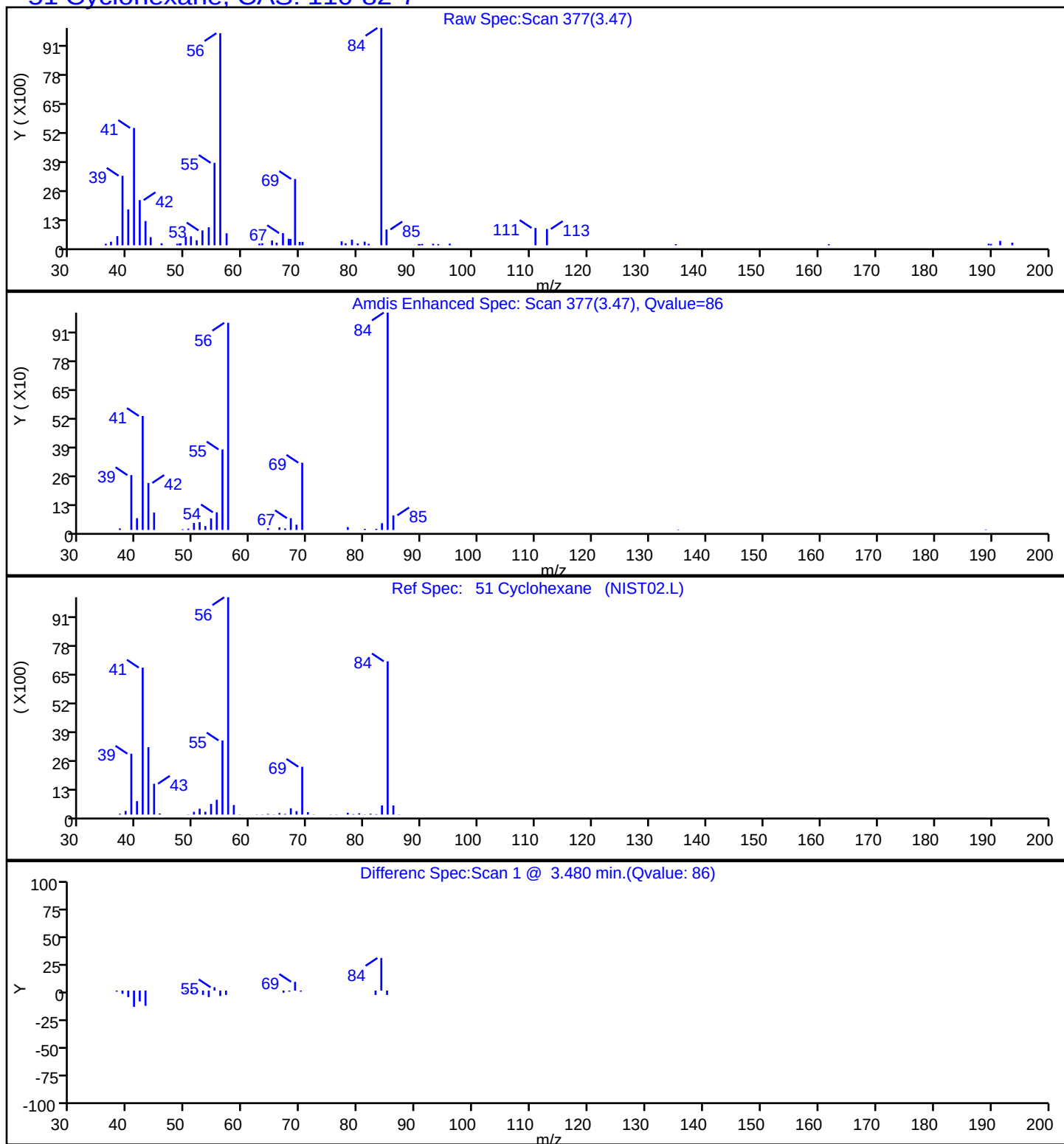
Dil. Factor: 5.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

51 Cyclohexane, CAS: 110-82-7

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

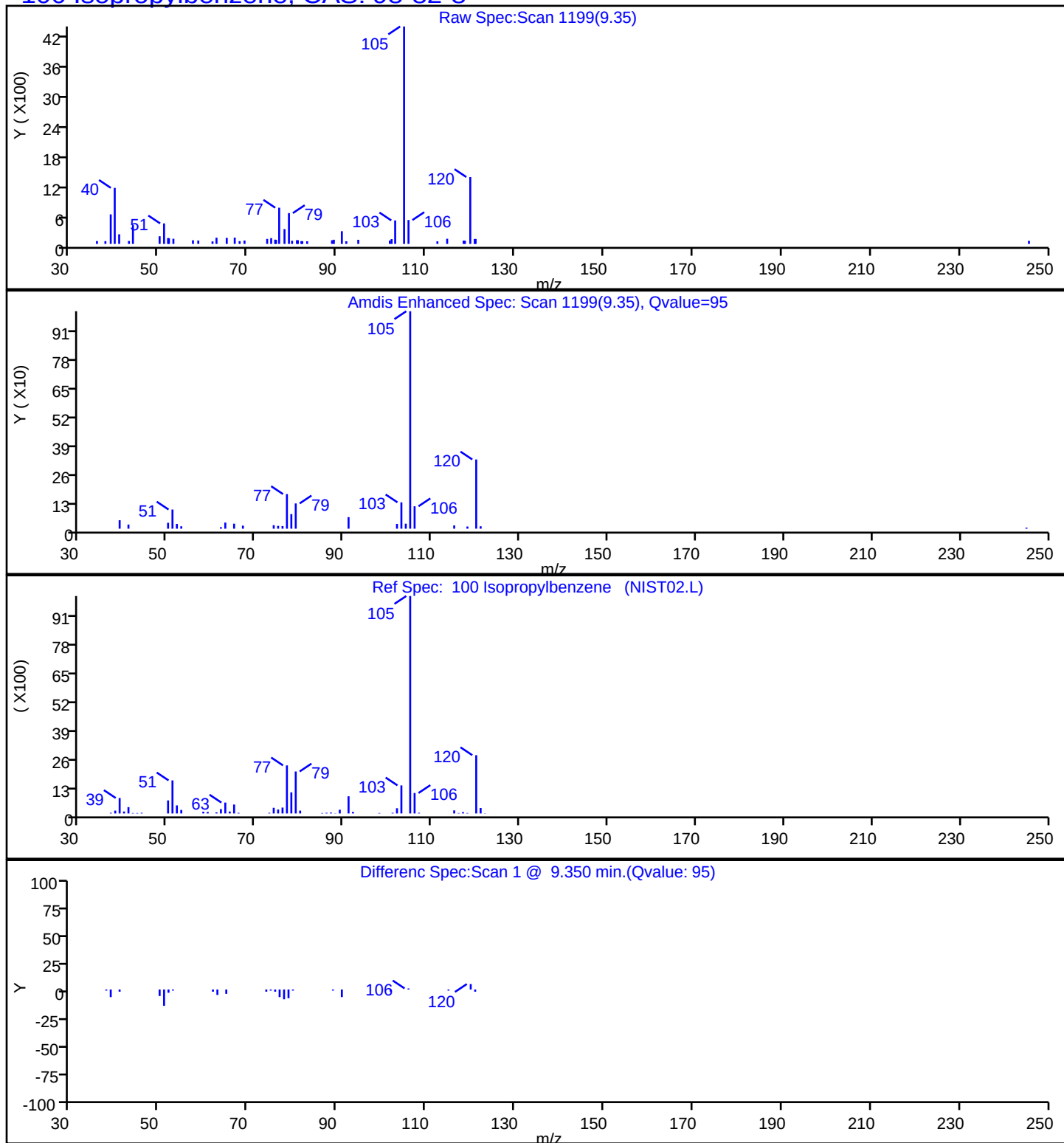
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

100 Isopropylbenzene, CAS: 98-82-8

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

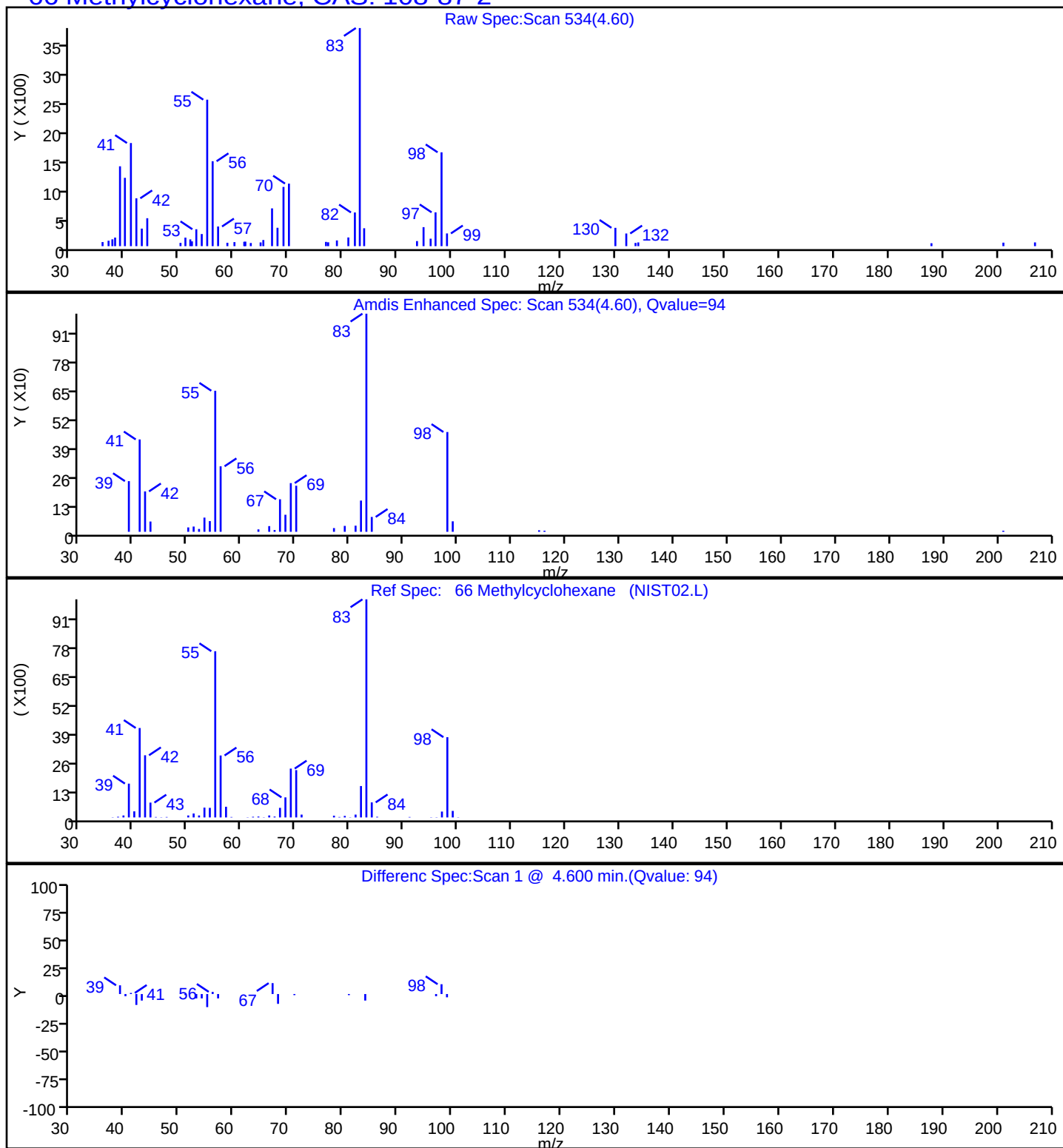
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

66 Methylcyclohexane, CAS: 108-87-2

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

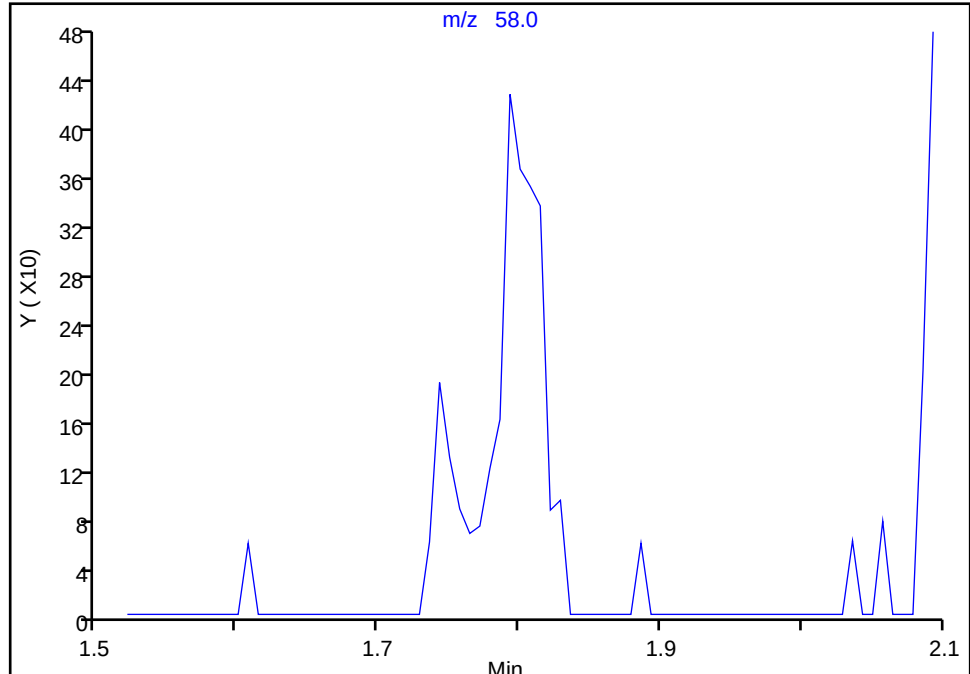
18 Acetone, CAS: 67-64-1

Signal: 1

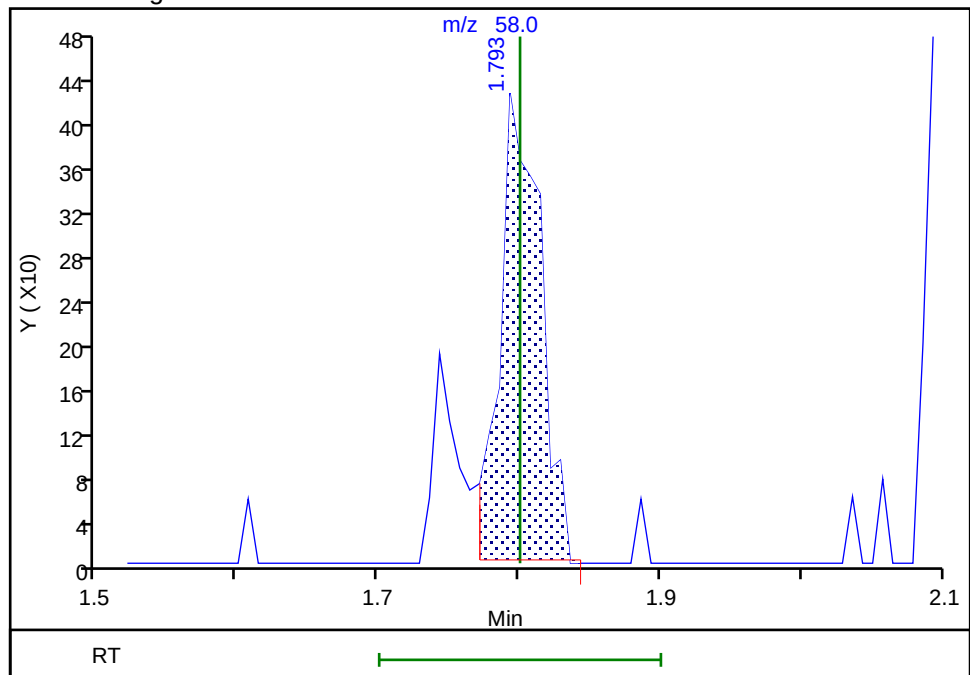
Not Detected

Expected RT: 1.80

Processing Integration Results



Manual Integration Results



Reviewer: baronm, 01-Jun-2018 19:49:47

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396474.D

Injection Date: 01-Jun-2018 18:56:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-1

Lab Sample ID: 460-157038-1

Client ID: NL-MW-3-20180525

Operator ID:

ALS Bottle#:

12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 5.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

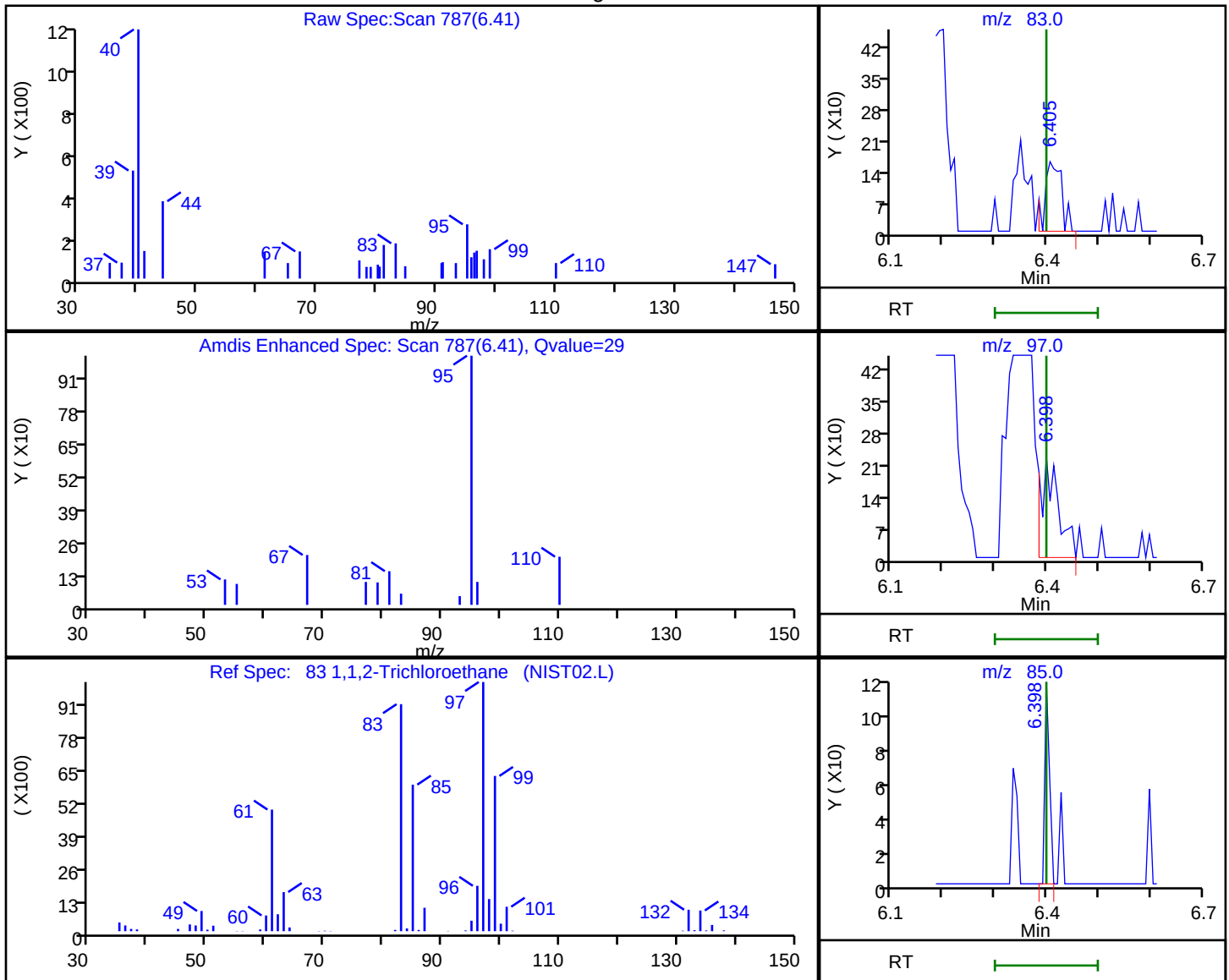
Column: DB-624 (0.18 mm)

Detector

MS SCAN

83 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
6.41	83.00	354	0.142299
6.40	97.00	515	
6.40	85.00	74	

Reviewer: martineze, 01-Jun-2018 19:16:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-157038-1</u>
SDG No.: _____	
Client Sample ID: <u>NL-MW-DUP-20180525</u>	Lab Sample ID: <u>460-157038-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>O396475.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>05/25/2018 11:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>06/01/2018 19:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>524327</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.1	U	5.0	1.1
74-83-9	Bromomethane	0.90	U *	5.0	0.90
75-01-4	Vinyl chloride	0.91	J	5.0	0.30
75-00-3	Chloroethane	1.9	U	5.0	1.9
75-09-2	Methylene Chloride	1.3	J	5.0	1.1
67-64-1	Acetone	13	J	25	5.4
75-15-0	Carbon disulfide	1.1	U	5.0	1.1
75-69-4	Trichlorofluoromethane	0.75	U	5.0	0.75
75-35-4	1,1-Dichloroethene	1.7	U	5.0	1.7
75-34-3	1,1-Dichloroethane	1.2	U	5.0	1.2
156-60-5	trans-1,2-Dichloroethene	4.6	J	5.0	0.90
156-59-2	cis-1,2-Dichloroethene	25		5.0	1.3
67-66-3	Chloroform	12		5.0	1.1
107-06-2	1,2-Dichloroethane	1.3	U	5.0	1.3
78-93-3	2-Butanone	11	U	25	11
71-55-6	1,1,1-Trichloroethane	1.4	U	5.0	1.4
56-23-5	Carbon tetrachloride	1.7	U	5.0	1.7
75-27-4	Bromodichloromethane	0.75	U	5.0	0.75
78-87-5	1,2-Dichloropropane	0.90	U	5.0	0.90
10061-01-5	cis-1,3-Dichloropropene	0.80	U	5.0	0.80
79-01-6	Trichloroethene	760		5.0	1.1
124-48-1	Dibromochloromethane	1.1	U	5.0	1.1
79-00-5	1,1,2-Trichloroethane	0.40	U	5.0	0.40
71-43-2	Benzene	4.8	J	5.0	0.45
10061-02-6	trans-1,3-Dichloropropene	0.95	U	5.0	0.95
75-25-2	Bromoform	0.90	U	5.0	0.90
108-10-1	4-Methyl-2-pentanone	3.2	U	25	3.2
591-78-6	2-Hexanone	3.6	U	25	3.6
127-18-4	Tetrachloroethene	1.0	J	5.0	0.60
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	5.0	0.95
108-88-3	Toluene	1.3	U	5.0	1.3
108-90-7	Chlorobenzene	1.2	U	5.0	1.2
100-41-4	Ethylbenzene	3.3	J	5.0	1.5
100-42-5	Styrene	0.85	U	5.0	0.85
1330-20-7	Xylenes, Total	1.4	U	10	1.4
76-13-1	Freon TF	1.7	U	5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Client Sample ID: NL-MW-DUP-20180525 Lab Sample ID: 460-157038-2
 Matrix: Water Lab File ID: O396475.D
 Analysis Method: 8260C Date Collected: 05/25/2018 11:50
 Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 19:24
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.76	J	5.0	0.65
110-82-7	Cyclohexane	16		5.0	1.3
106-93-4	1,2-Dibromoethane	0.95	U	5.0	0.95
541-73-1	1,3-Dichlorobenzene	1.7	U	5.0	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	5.0	1.7
95-50-1	1,2-Dichlorobenzene	1.1	U	5.0	1.1
75-71-8	Dichlorodifluoromethane	0.70	U	5.0	0.70
120-82-1	1,2,4-Trichlorobenzene	1.4	U	5.0	1.4
96-12-8	1,2-Dibromo-3-Chloropropane	1.2	U	5.0	1.2
98-82-8	Isopropylbenzene	2.2	J	5.0	1.6
108-87-2	Methylcyclohexane	5.4		5.0	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		74-132
2037-26-5	Toluene-d8 (Surr)	89		80-120
460-00-4	Bromofluorobenzene	108		77-124
1868-53-7	Dibromofluoromethane (Surr)	95		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396475.D
 Lims ID: 460-157038-B-2
 Client ID: NL-MW-DUP-20180525
 Sample Type: Client
 Inject. Date: 01-Jun-2018 19:24:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 460-157038-B-2
 Misc. Info.: 460-0073036-014
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 17:42:50 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: baronm

Date: 01-Jun-2018 19:45:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Vinyl chloride	62	1.078	1.071	0.007	41	662	0.1828	
18 Acetone	58	1.800	1.800	0.000	86	906	2.69	
26 Methylene Chloride	84	2.072	2.072	0.000	68	1059	0.2663	
* 27 TBA-d9 (IS)	65	2.108	2.101	0.007	0	379356	1000.0	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	90	3337	0.9254	
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	35	1689	0.1515	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	298819	250.0	
40 cis-1,2-Dichloroethene	96	3.002	3.002	0.000	93	18752	4.98	
48 Chloroform	83	3.266	3.266	0.000	99	12820	2.36	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	137635	47.6	
51 Cyclohexane	84	3.474	3.473	0.001	86	13212	3.11	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	132120	42.0	
56 Benzene	78	3.760	3.759	0.001	93	12296	0.9691	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	587244	50.0	
64 Trichloroethene	95	4.403	4.396	0.007	95	536782	152.1	
66 Methylcyclohexane	83	4.603	4.603	0.000	94	5397	1.08	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	43298	1000.0	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	99	547295	44.3	
84 Tetrachloroethene	166	6.570	6.570	0.000	88	894	0.2062	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	84	568977	50.0	
93 Ethylbenzene	106	7.971	7.971	0.000	98	3816	0.6685	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	7648	0.4451	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	284375	54.0	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	361092	50.0	

Reagents:

8260SURR250_00178

Amount Added: 1.00

Units: uL

8260ISNEW_00122

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Worklist Smp#: 14

Client ID: NL-MW-DUP-20180525

Purge Vol: 5.000 mL

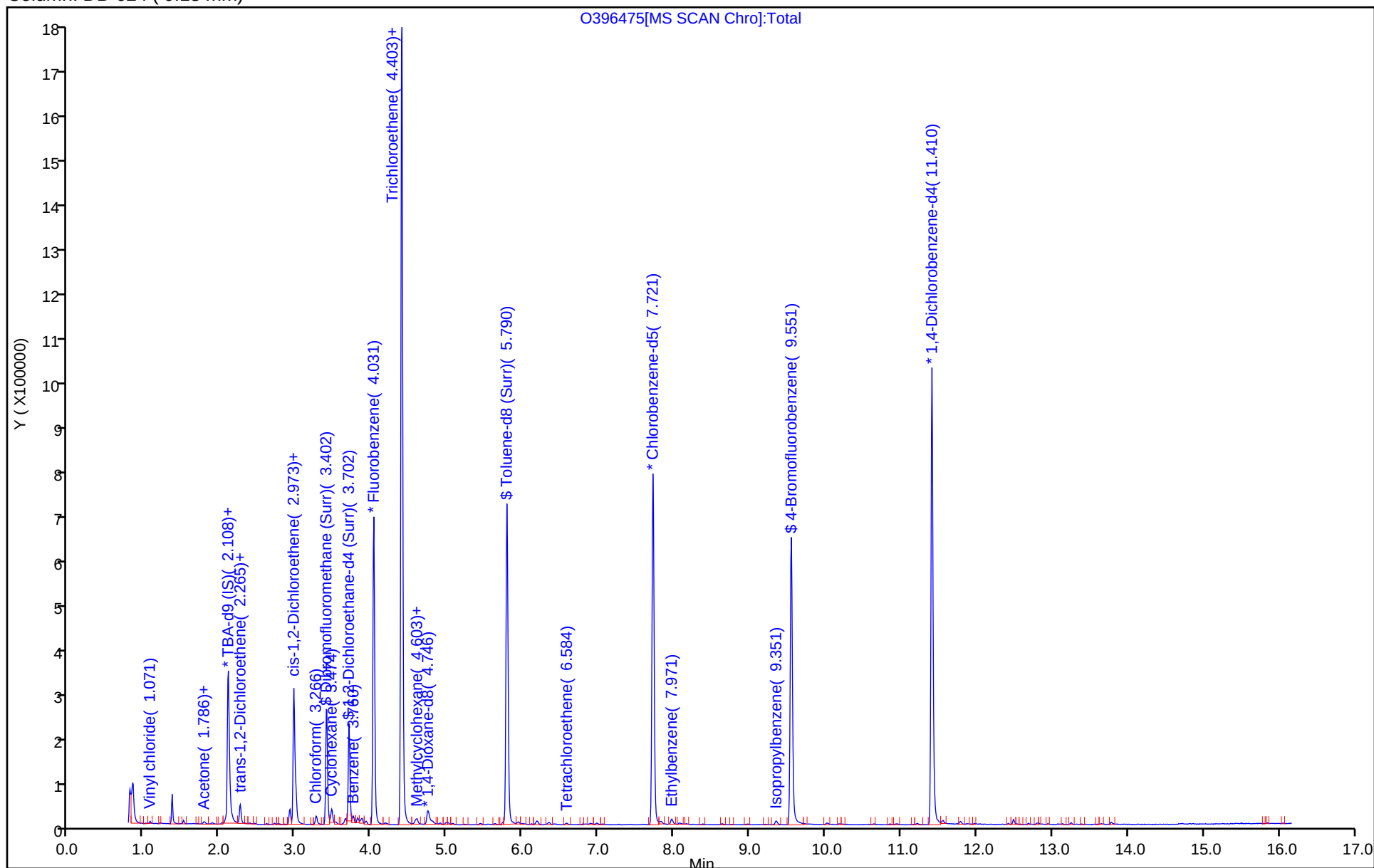
Dil. Factor: 5.0000

ALS Bottle#: 13

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

Limit Group:

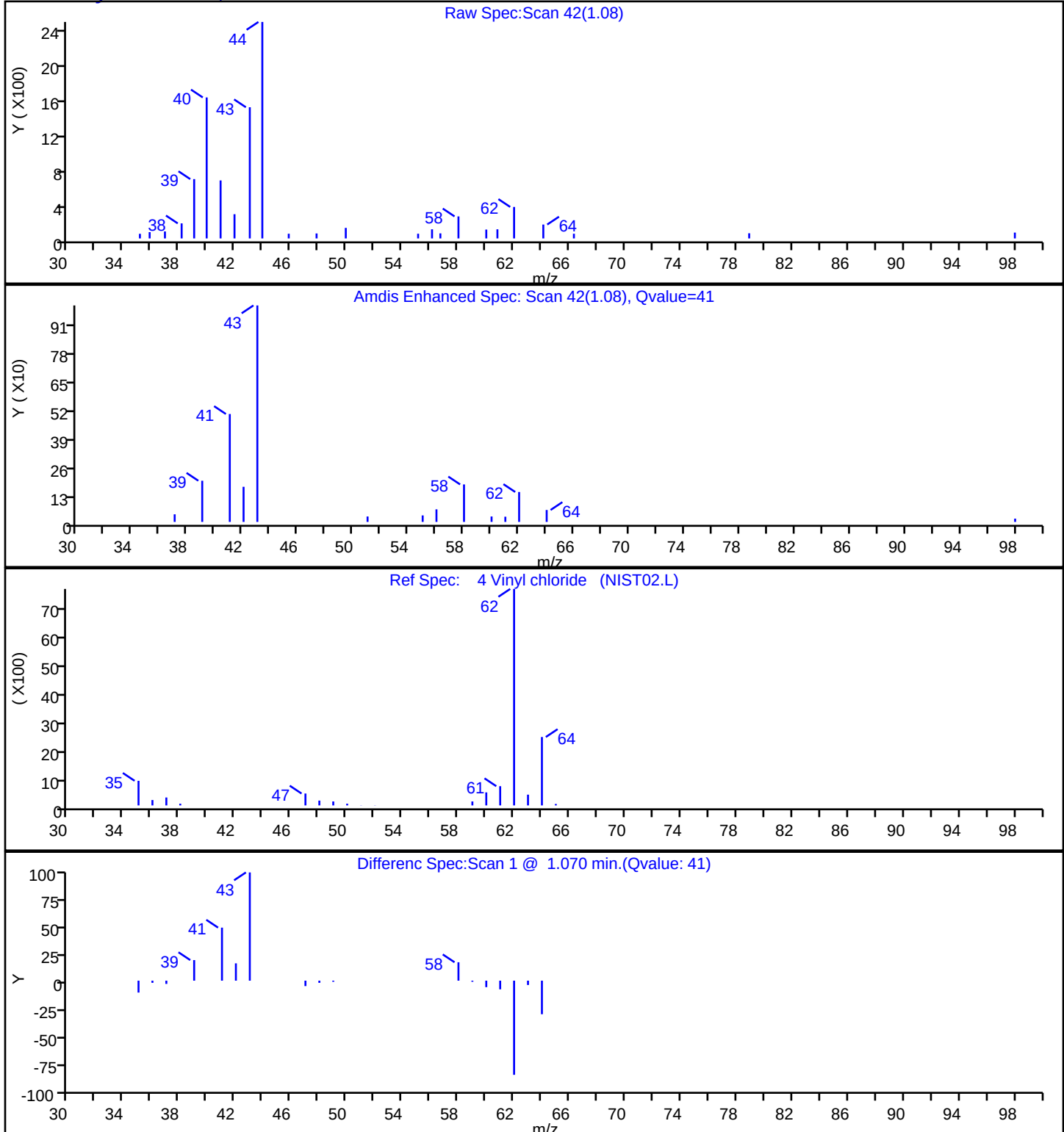
VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

4 Vinyl chloride, CAS: 75-01-4



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

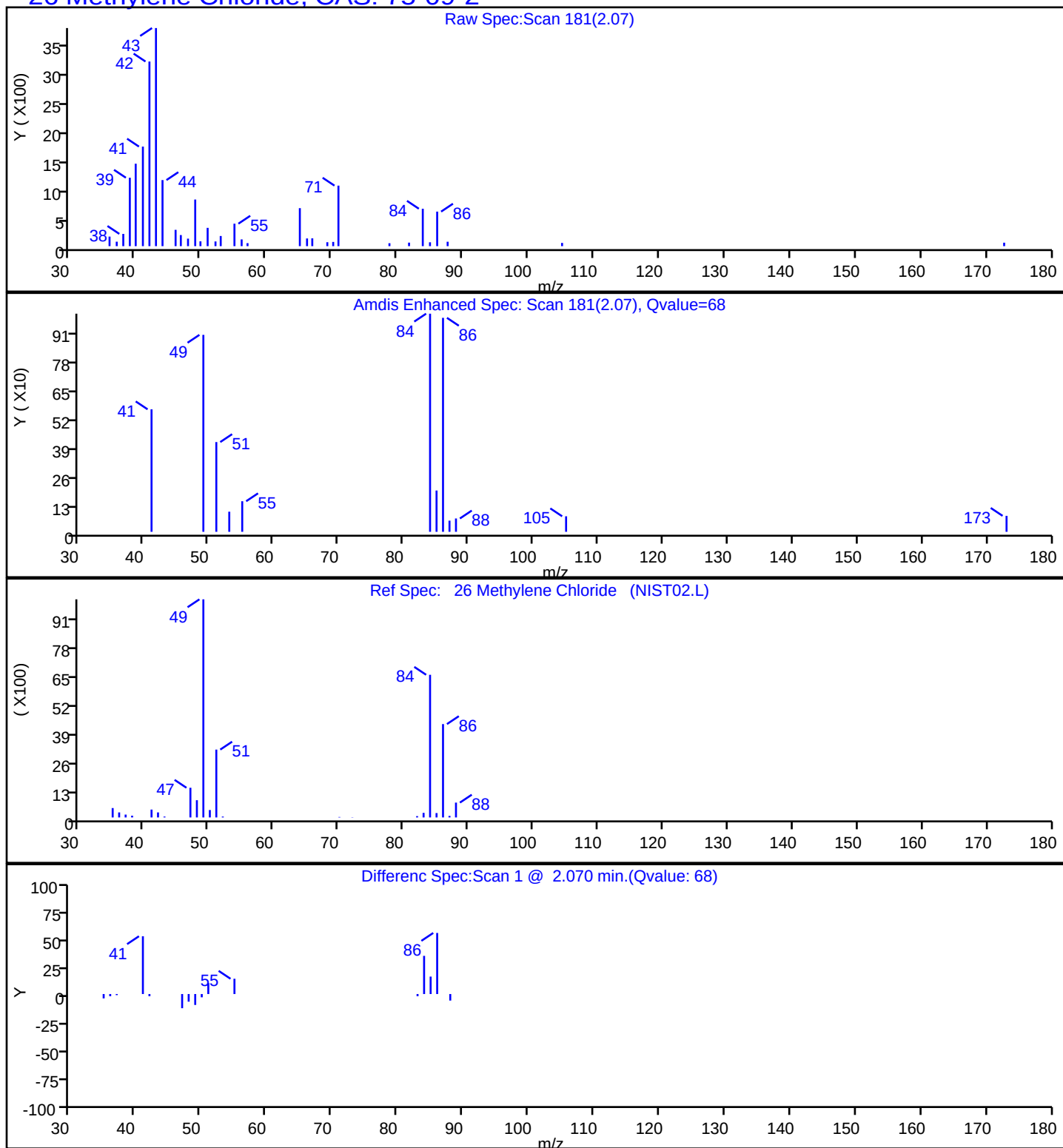
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

26 Methylene Chloride, CAS: 75-09-2

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

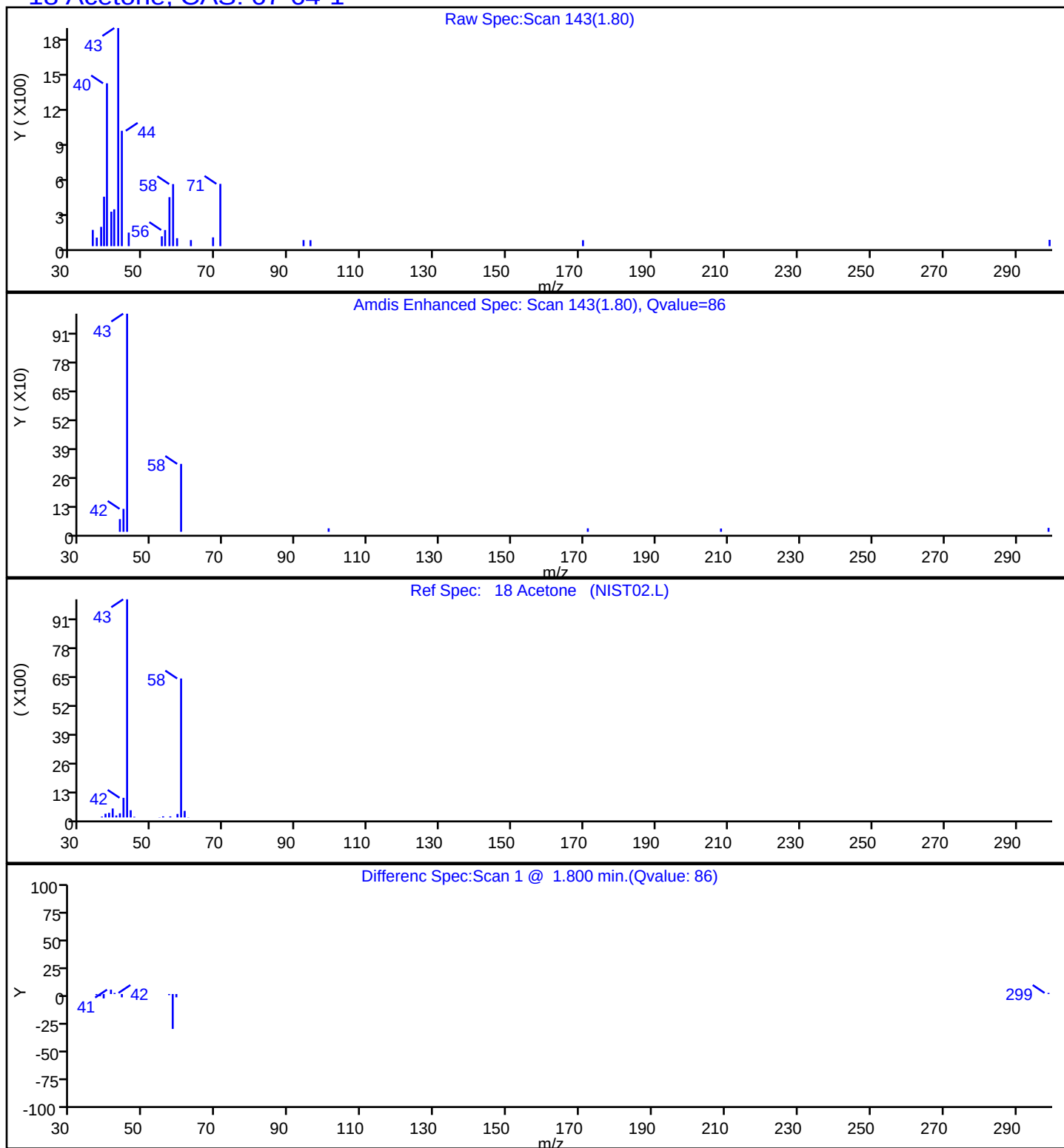
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

18 Acetone, CAS: 67-64-1

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

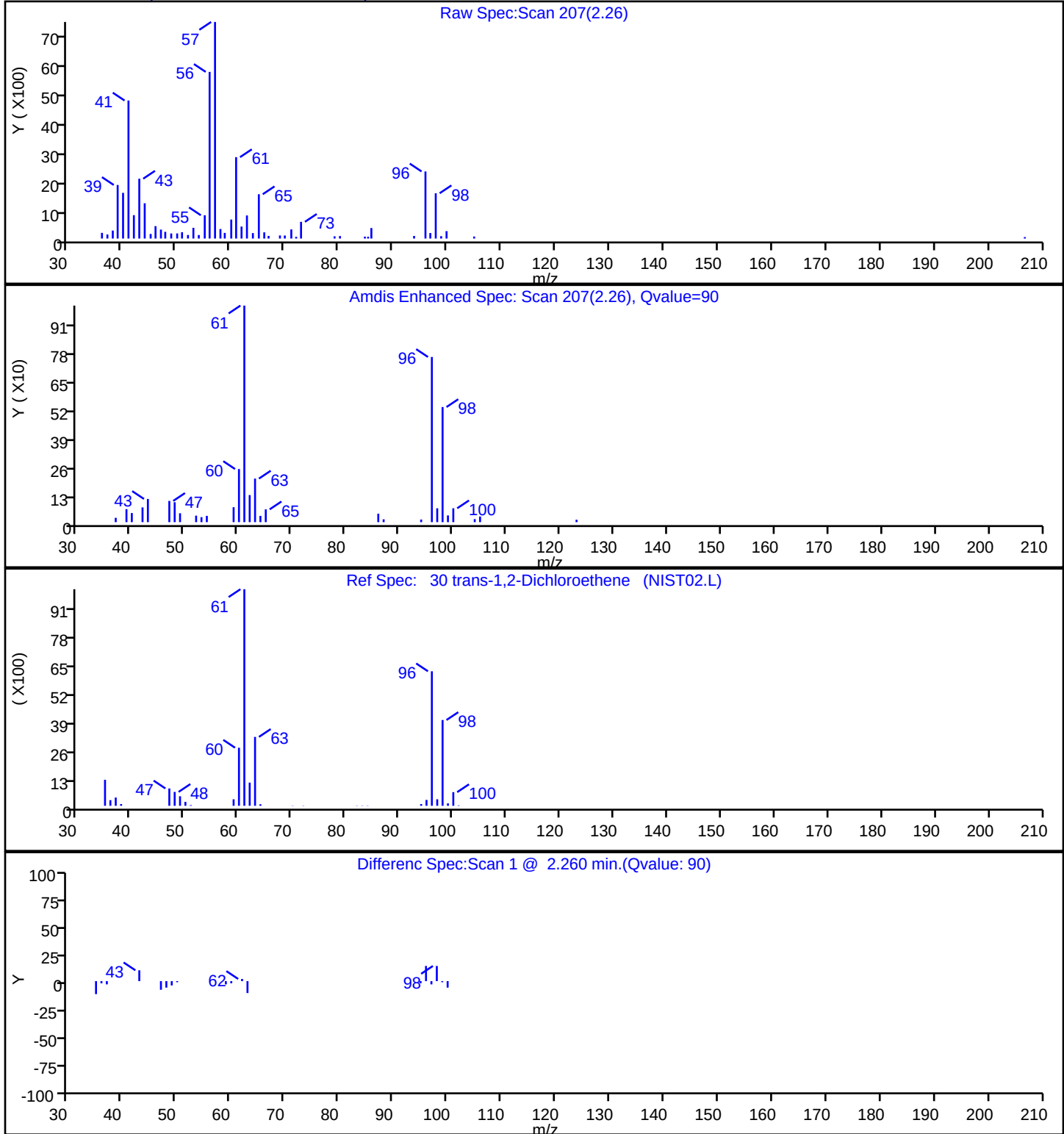
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

30 trans-1,2-Dichloroethene, CAS: 156-60-5

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

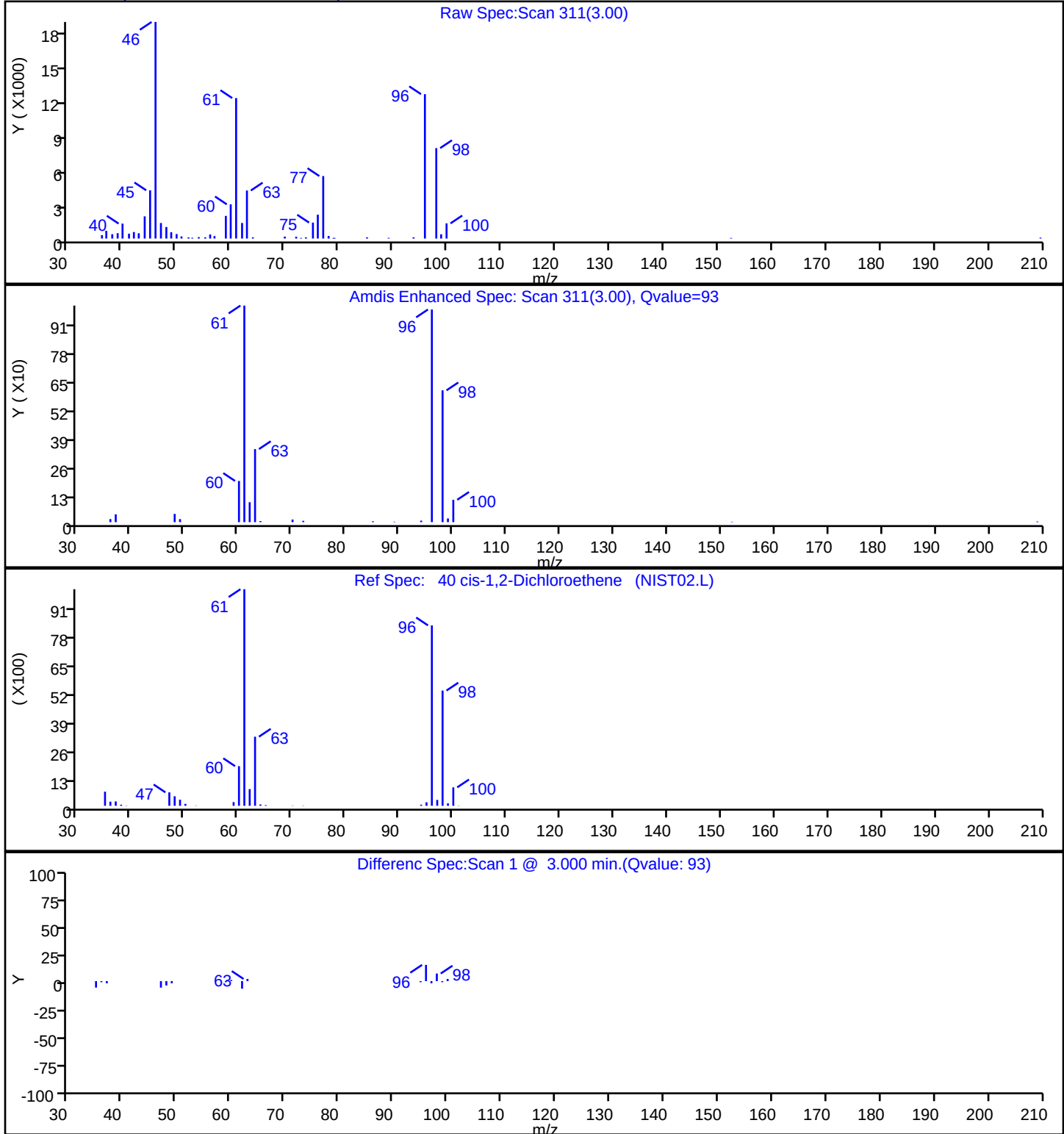
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

40 cis-1,2-Dichloroethene, CAS: 156-59-2

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

Limit Group:

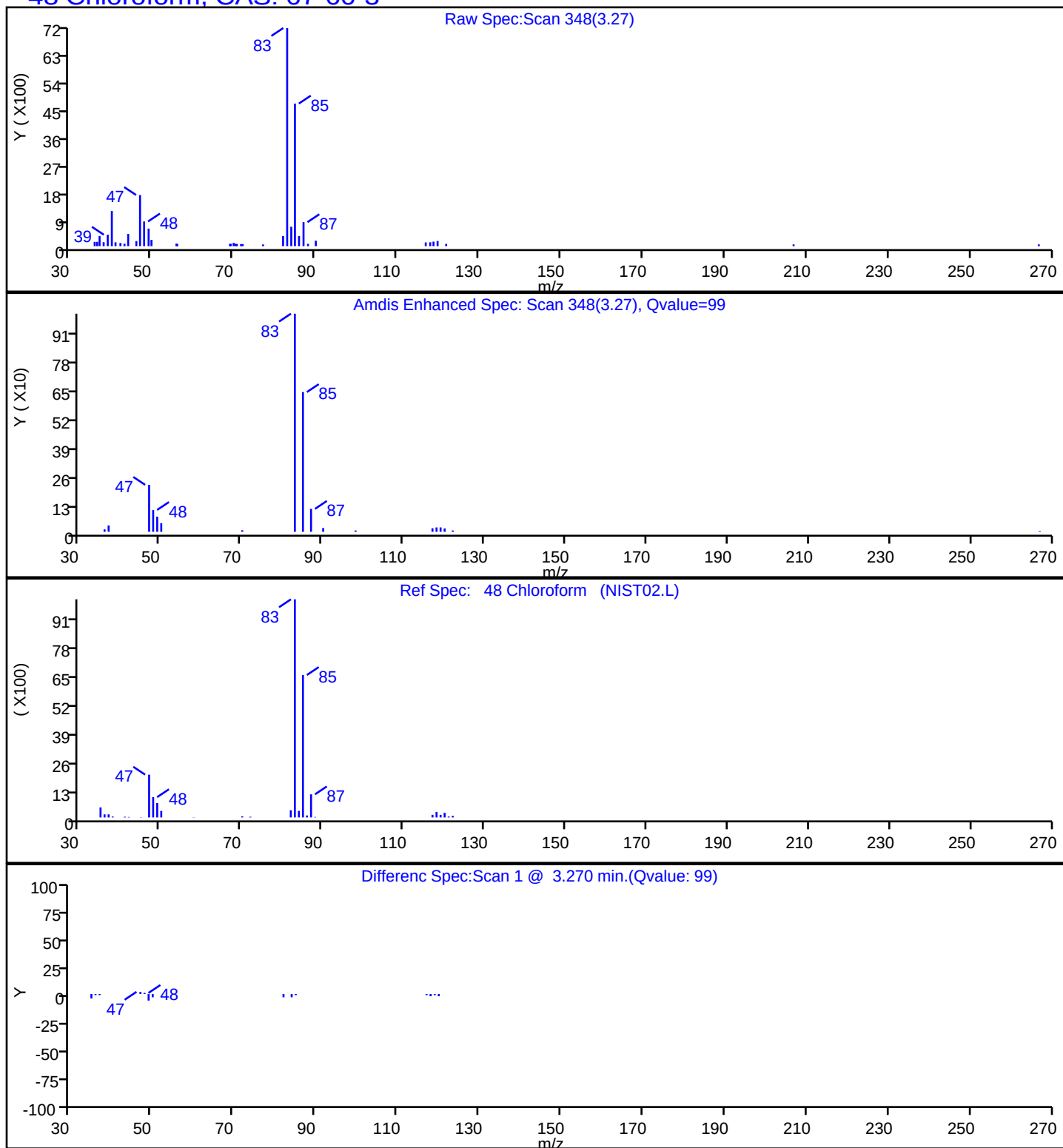
VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

48 Chloroform, CAS: 67-66-3



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

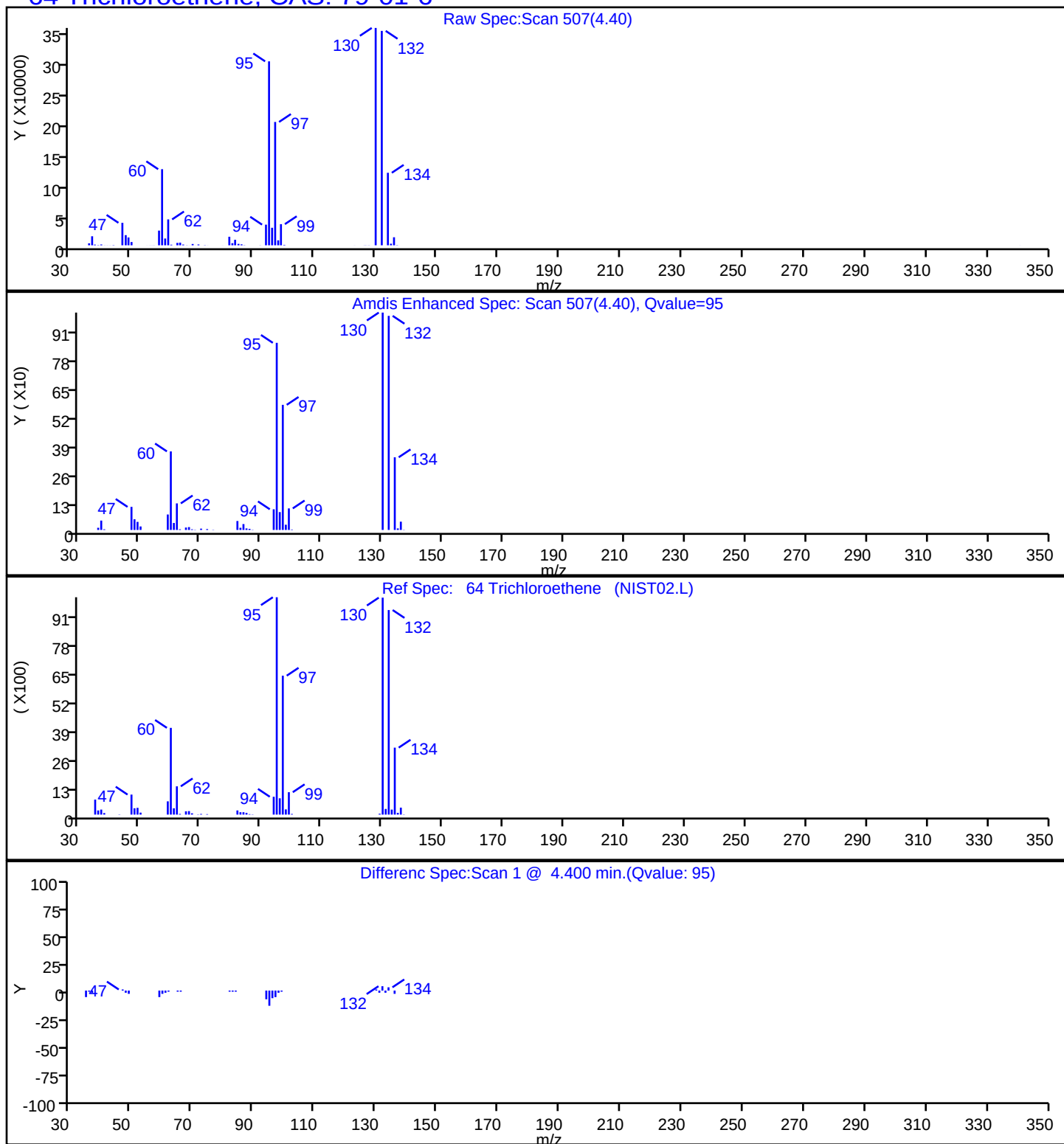
Dil. Factor: 5.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

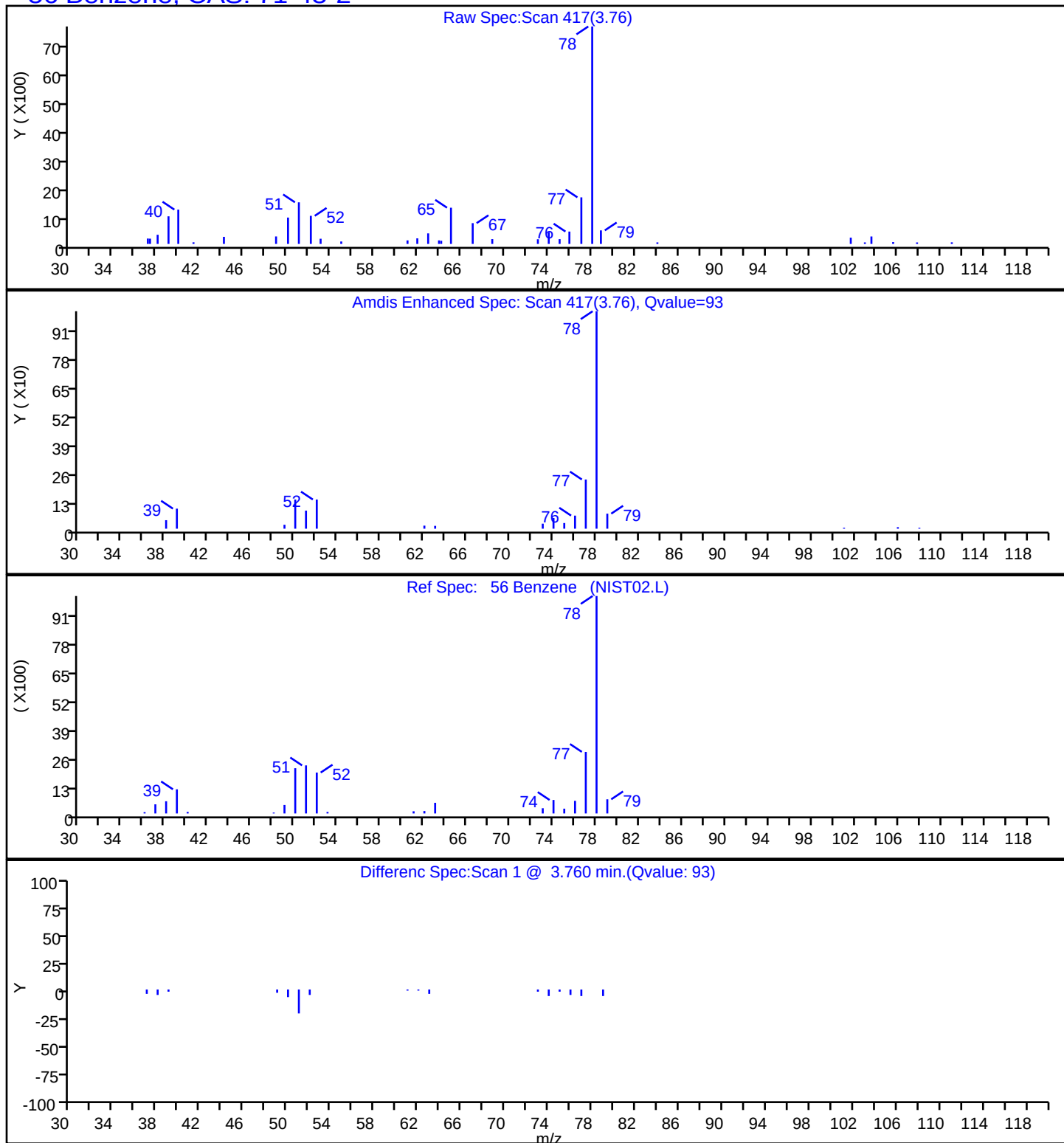
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

56 Benzene, CAS: 71-43-2

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

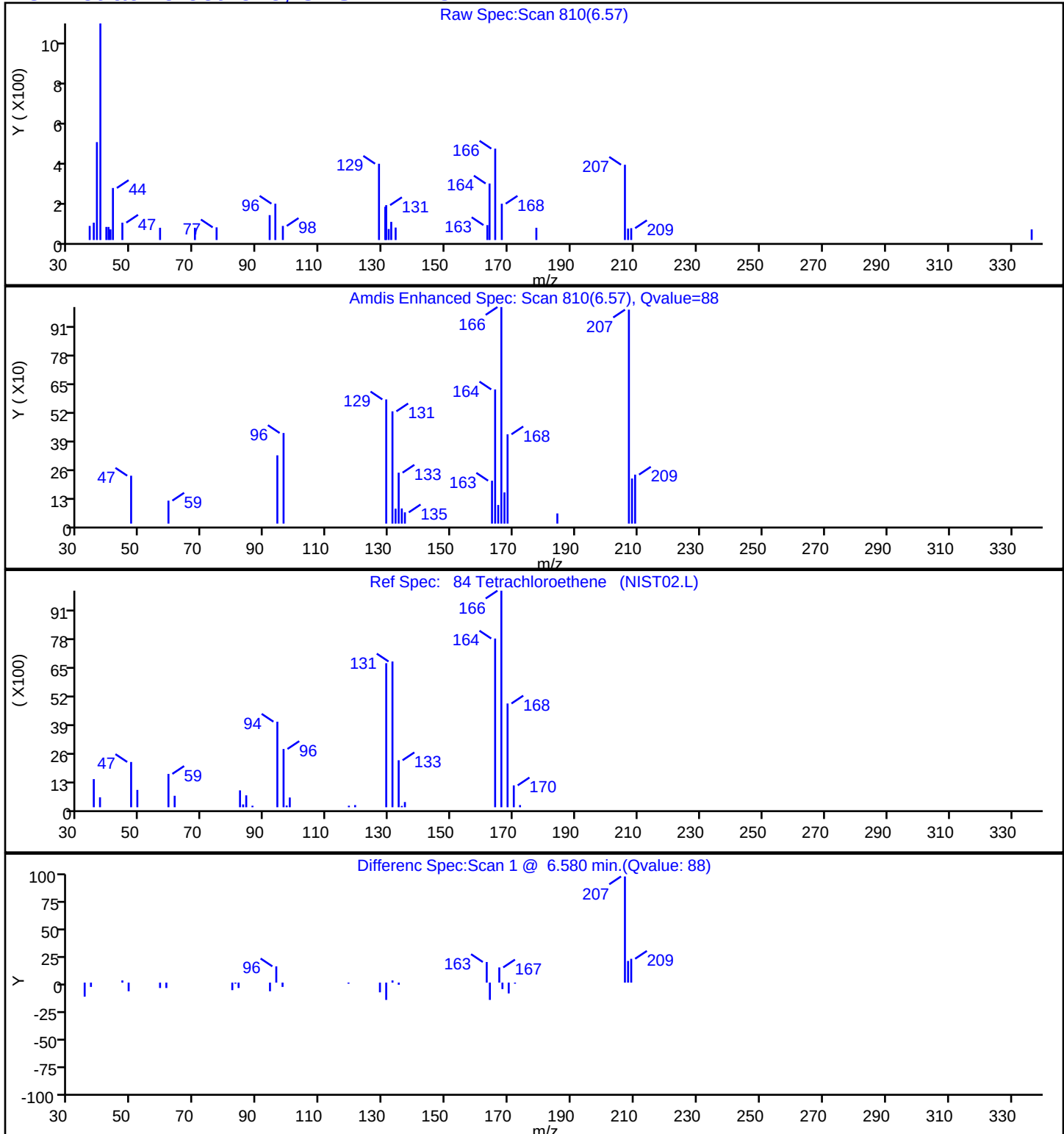
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

84 Tetrachloroethene, CAS: 127-18-4

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

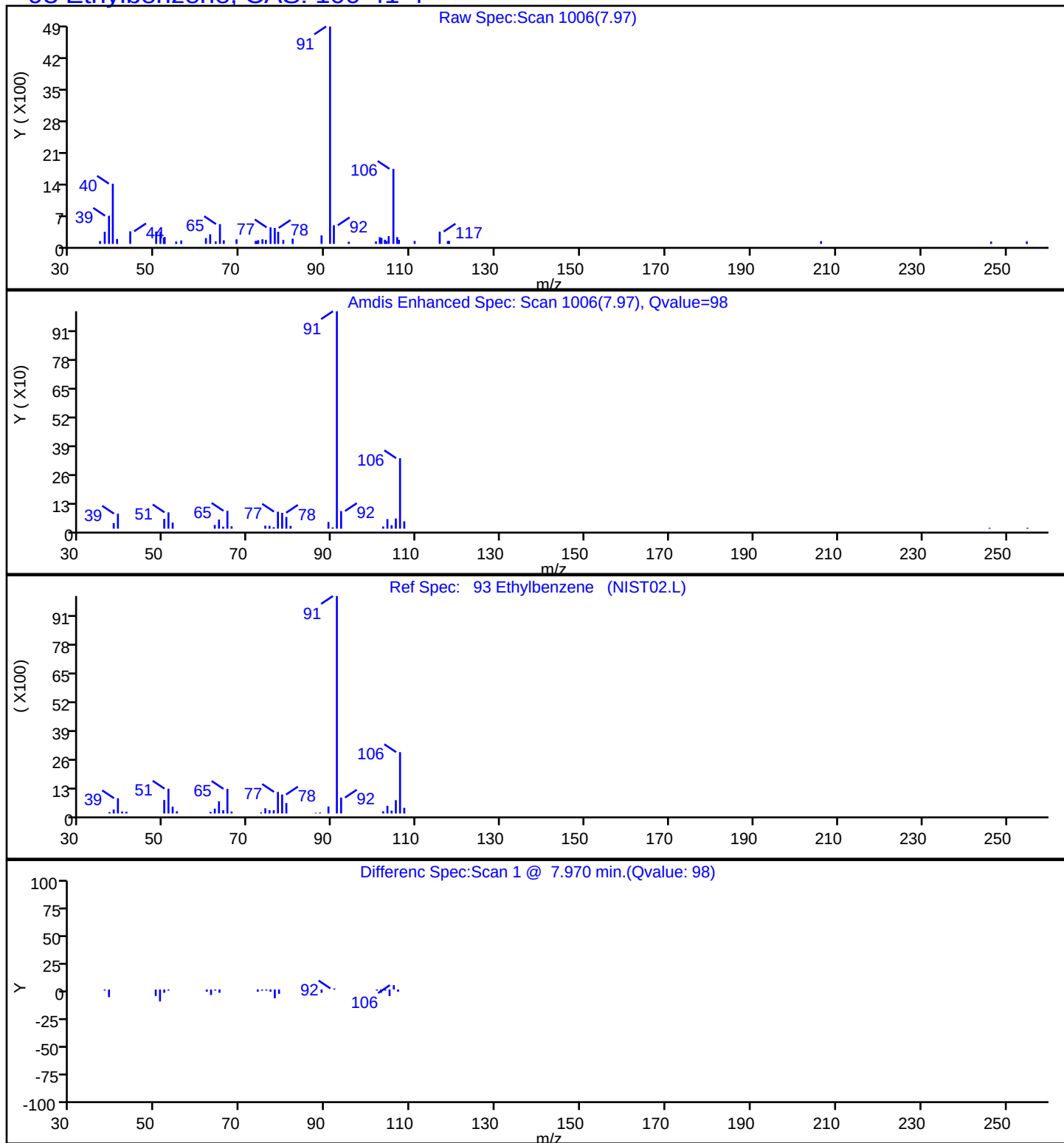
Dil. Factor: 5.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

93 Ethylbenzene, CAS: 100-41-4

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

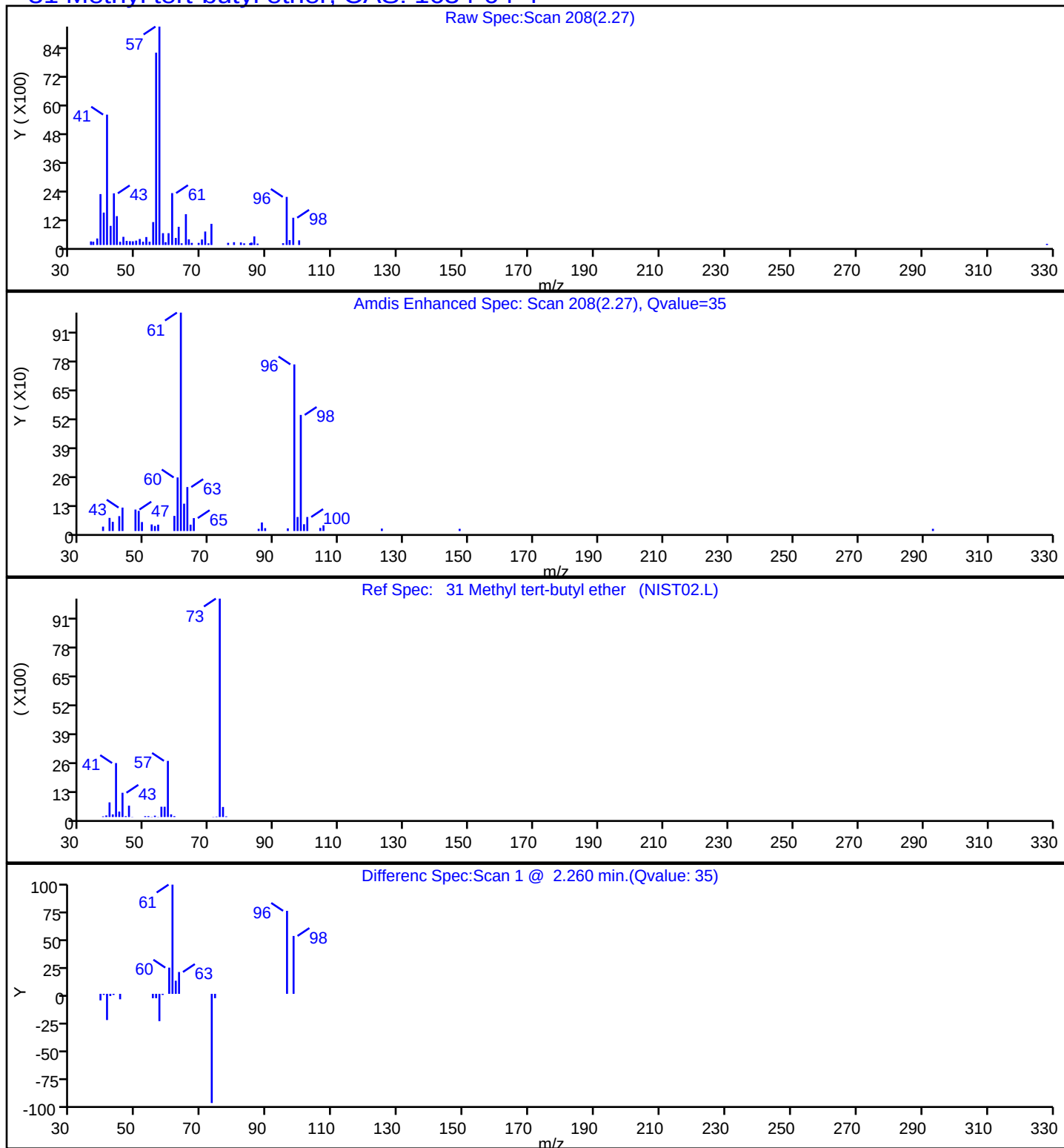
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

31 Methyl tert-butyl ether, CAS: 1634-04-4

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL

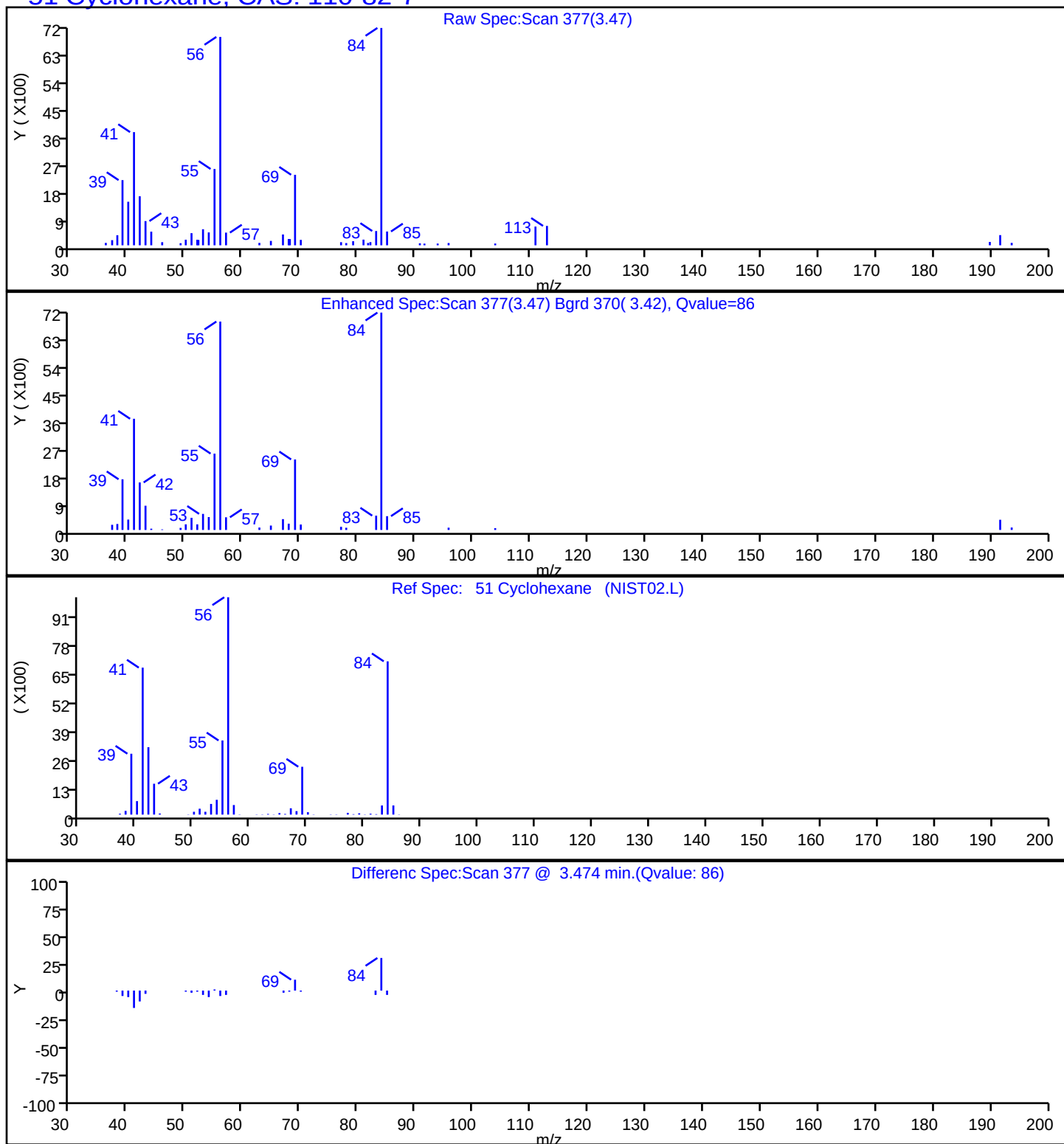
Dil. Factor: 5.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

51 Cyclohexane, CAS: 110-82-7

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

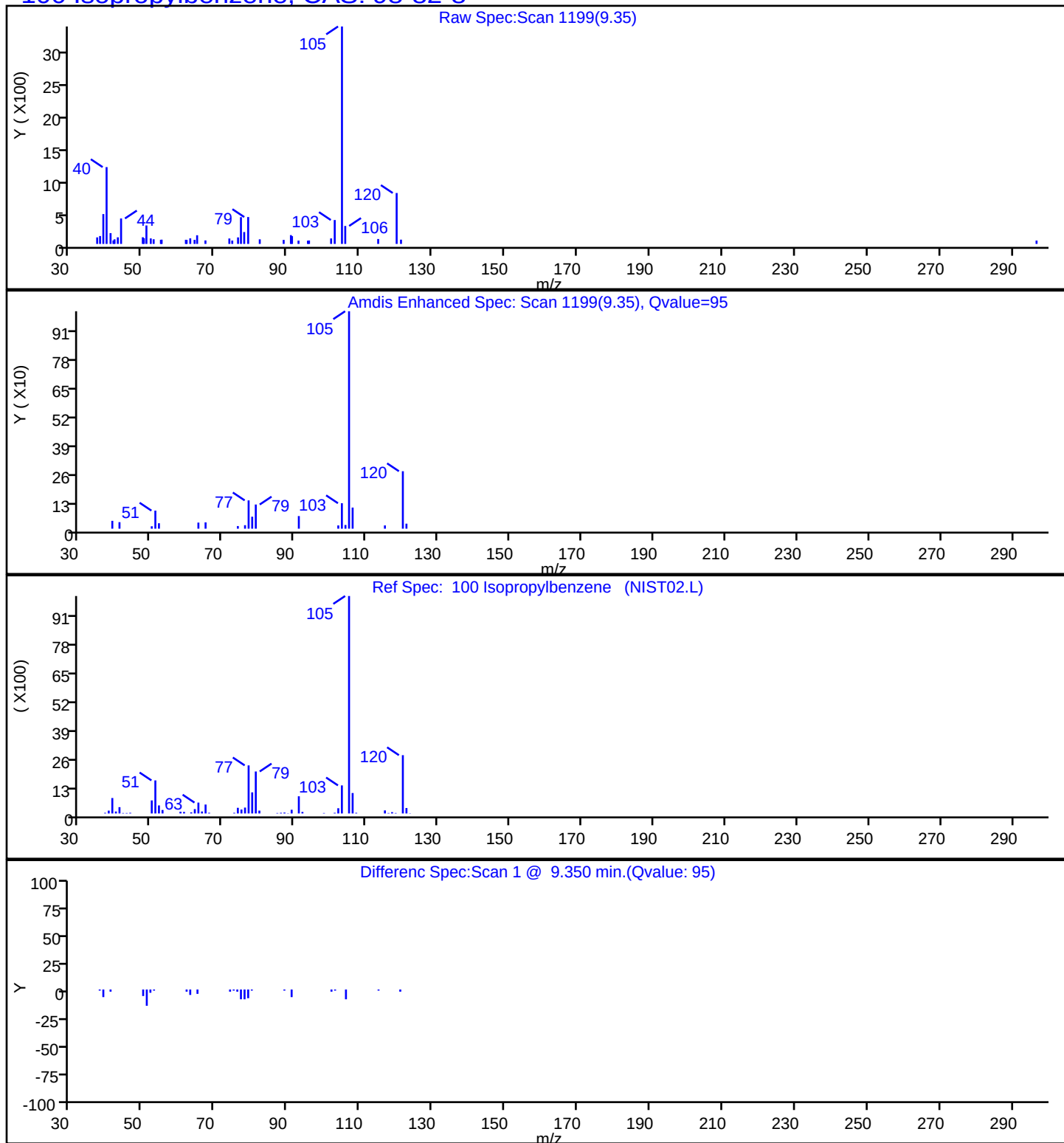
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

100 Isopropylbenzene, CAS: 98-82-8

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396475.D

Injection Date: 01-Jun-2018 19:24:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-B-2

Lab Sample ID: 460-157038-2

Client ID: NL-MW-DUP-20180525

Operator ID:

ALS Bottle#:

13

Worklist Smp#:

14

Purge Vol: 5.000 mL

Dil. Factor:

5.0000

Method: 8260W_12

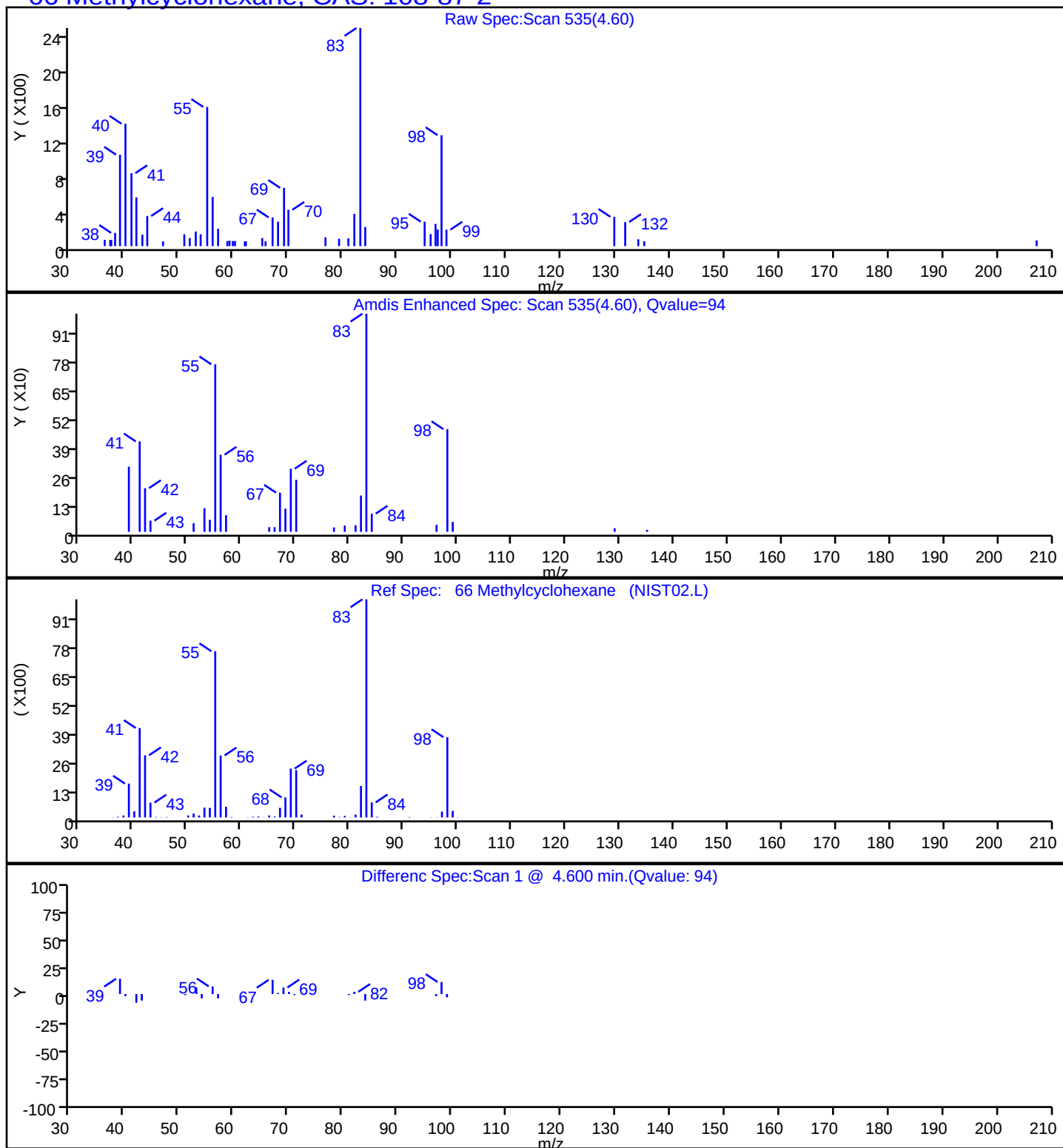
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

66 Methylcyclohexane, CAS: 108-87-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-157038-1</u>
SDG No.: _____	
Client Sample ID: <u>NL-FB-20180525</u>	Lab Sample ID: <u>460-157038-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>O396447.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>05/25/2018 12:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>06/01/2018 04:12</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>524141</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.22	U	1.0	0.22
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
75-00-3	Chloroethane	0.37	U	1.0	0.37
75-09-2	Methylene Chloride	0.89	J	1.0	0.21
67-64-1	Acetone	1.1	U	5.0	1.1
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
67-66-3	Chloroform	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-93-3	2-Butanone	2.2	U	5.0	2.2
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
79-01-6	Trichloroethene	0.22	U	1.0	0.22
124-48-1	Dibromochloromethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
71-43-2	Benzene	0.090	U	1.0	0.090
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
75-25-2	Bromoform	0.18	U	1.0	0.18
108-10-1	4-Methyl-2-pentanone	0.63	U	5.0	0.63
591-78-6	2-Hexanone	0.72	U	5.0	0.72
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
108-88-3	Toluene	0.25	U	1.0	0.25
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
100-42-5	Styrene	0.17	U	1.0	0.17
1330-20-7	Xylenes, Total	0.28	U	2.0	0.28
76-13-1	Freon TF	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-FB-20180525 Lab Sample ID: 460-157038-3

Matrix: Water Lab File ID: O396447.D

Analysis Method: 8260C Date Collected: 05/25/2018 12:00

Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 04:12

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 524141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.13	U	1.0	0.13
110-82-7	Cyclohexane	0.26	U	1.0	0.26
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		74-132
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	Bromofluorobenzene	113		77-124
1868-53-7	Dibromofluoromethane (Surr)	104		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396447.D
 Lims ID: 460-157038-A-3
 Client ID: NL-FB-20180525
 Sample Type: Client
 Inject. Date: 01-Jun-2018 04:12:30 ALS Bottle#: 10 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-157038-A-3
 Misc. Info.: 460-0072999-011
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 16:52:31 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: starzecm

Date: 01-Jun-2018 11:25:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
26 Methylene Chloride	84	2.072	2.072	0.000	77	3343	0.8945	
* 27 TBA-d9 (IS)	65	2.101	2.122	-0.021	0	370851	1000.0	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	291151	250.0	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	140934	51.8	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	134174	45.4	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	551805	50.0	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	46166	1000.0	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	561826	47.9	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	84	540679	50.0	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	283572	56.7	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	349057	50.0	

Reagents:

8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180531-72999.b\\O396447.D

Injection Date: 01-Jun-2018 04:12:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: 460-157038-A-3

Lab Sample ID: 460-157038-3

Worklist Smp#: 11

Client ID: NL-FB-20180525

Purge Vol: 5.000 mL

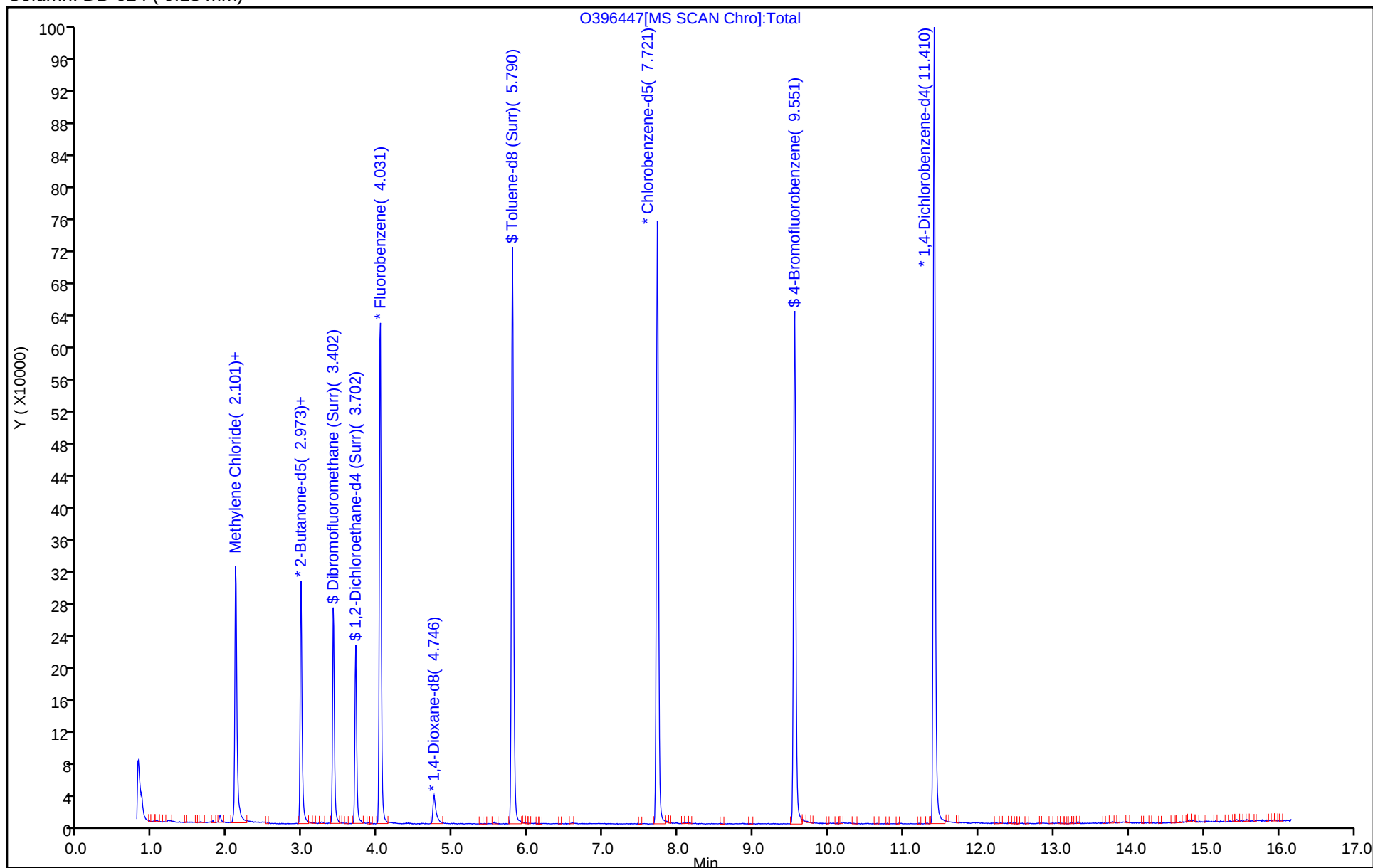
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396447.D

Injection Date: 01-Jun-2018 04:12:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-A-3

Lab Sample ID: 460-157038-3

Client ID: NL-FB-20180525

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

11

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

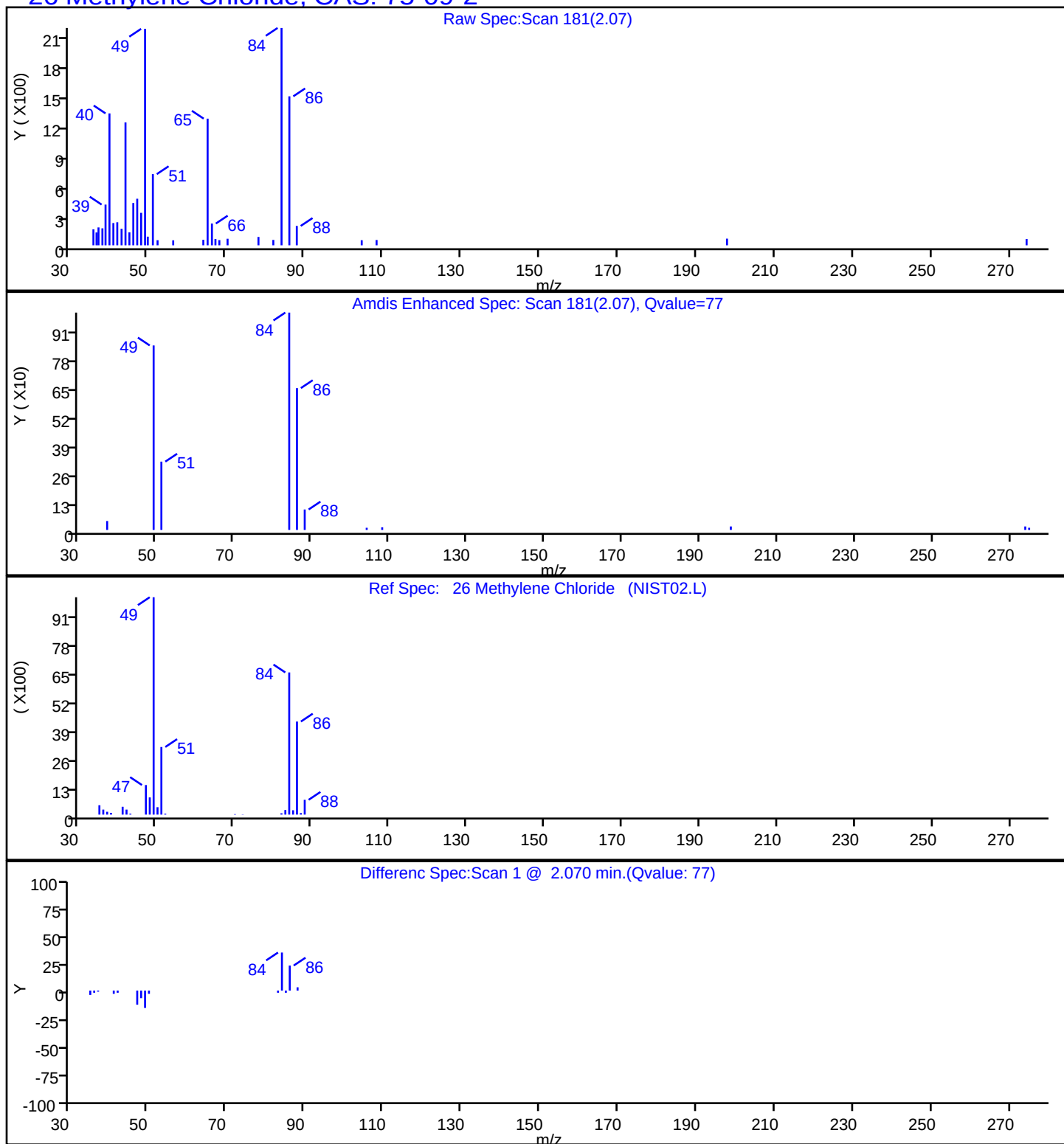
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

26 Methylene Chloride, CAS: 75-09-2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-157038-1</u>
SDG No.: _____	
Client Sample ID: <u>NL-TB-20180525</u>	Lab Sample ID: <u>460-157038-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>O396445.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>05/25/2018 00:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>06/01/2018 03:16</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>524141</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.22	U	1.0	0.22
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
75-00-3	Chloroethane	0.37	U	1.0	0.37
75-09-2	Methylene Chloride	3.6		1.0	0.21
67-64-1	Acetone	1.1	U	5.0	1.1
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
67-66-3	Chloroform	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-93-3	2-Butanone	2.2	U	5.0	2.2
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
79-01-6	Trichloroethene	0.22	U	1.0	0.22
124-48-1	Dibromochloromethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
71-43-2	Benzene	0.090	U	1.0	0.090
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
75-25-2	Bromoform	0.18	U	1.0	0.18
108-10-1	4-Methyl-2-pentanone	0.63	U	5.0	0.63
591-78-6	2-Hexanone	0.72	U	5.0	0.72
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
108-88-3	Toluene	0.25	U	1.0	0.25
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
100-42-5	Styrene	0.17	U	1.0	0.17
1330-20-7	Xylenes, Total	0.28	U	2.0	0.28
76-13-1	Freon TF	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-TB-20180525 Lab Sample ID: 460-157038-4

Matrix: Water Lab File ID: O396445.D

Analysis Method: 8260C Date Collected: 05/25/2018 00:00

Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 03:16

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 524141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.13	U	1.0	0.13
110-82-7	Cyclohexane	0.26	U	1.0	0.26
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	Bromofluorobenzene	115		77-124
1868-53-7	Dibromofluoromethane (Surr)	104		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396445.D
 Lims ID: 460-157038-A-4
 Client ID: NL-TB-20180525
 Sample Type: Client
 Inject. Date: 01-Jun-2018 03:16:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-157038-A-4
 Misc. Info.: 460-0072999-009
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 16:52:31 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: starzecm

Date: 01-Jun-2018 11:22:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
26 Methylene Chloride	84	2.072	2.072	0.000	81	13147	3.56	
* 27 TBA-d9 (IS)	65	2.101	2.122	-0.021	0	350487	1000.0	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	283515	250.0	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	140019	52.2	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	134678	46.2	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	544708	50.0	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	44214	1000.0	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	549796	48.0	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	84	527882	50.0	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	281024	57.6	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	343427	50.0	

Reagents:

8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180531-72999.b\\O396445.D

Injection Date: 01-Jun-2018 03:16:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: 460-157038-A-4

Lab Sample ID: 460-157038-4

Worklist Smp#: 9

Client ID: NL-TB-20180525

Purge Vol: 5.000 mL

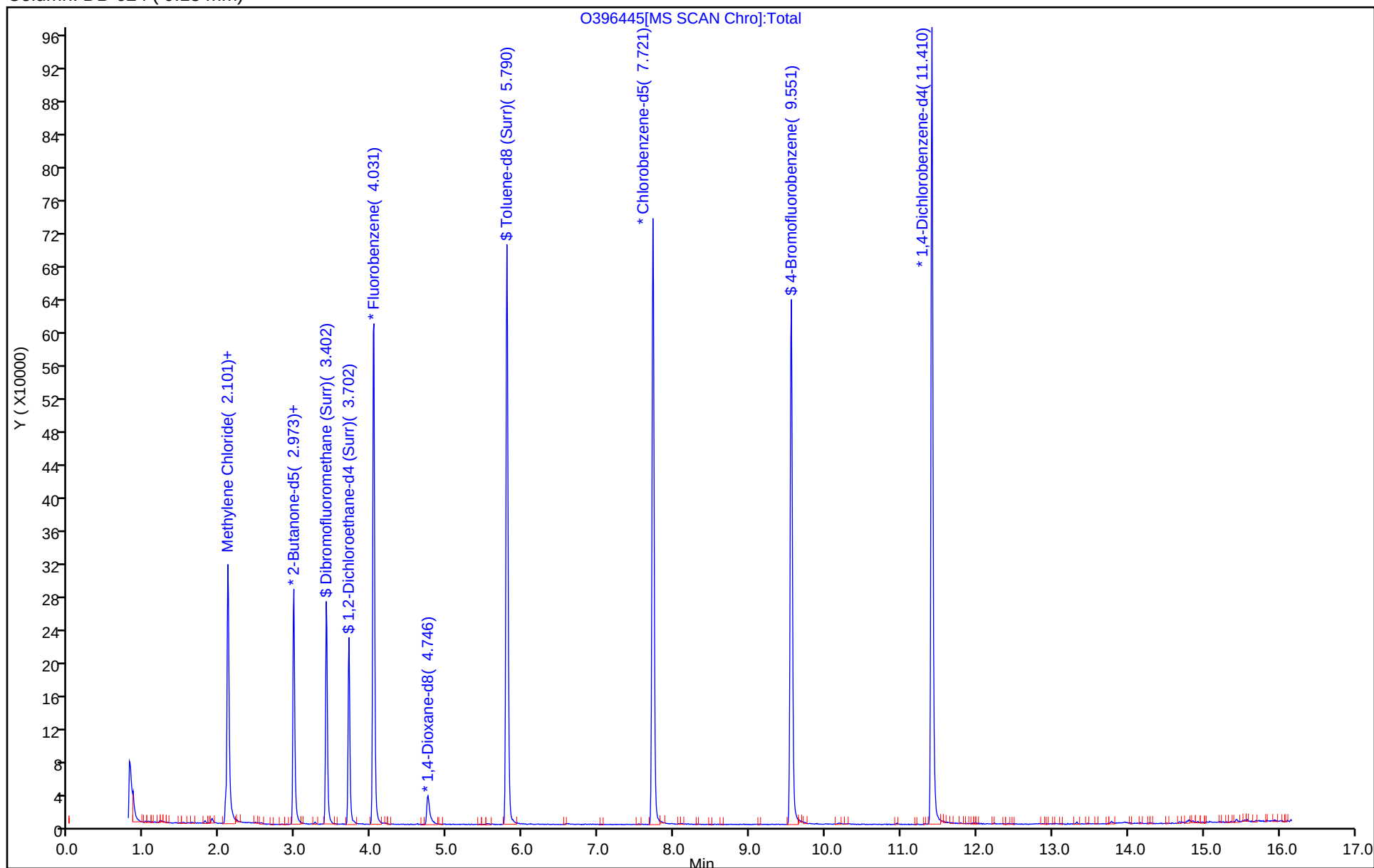
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180531-72999.b\\O396445.D

Injection Date: 01-Jun-2018 03:16:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-A-4

Lab Sample ID: 460-157038-4

Client ID: NL-TB-20180525

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

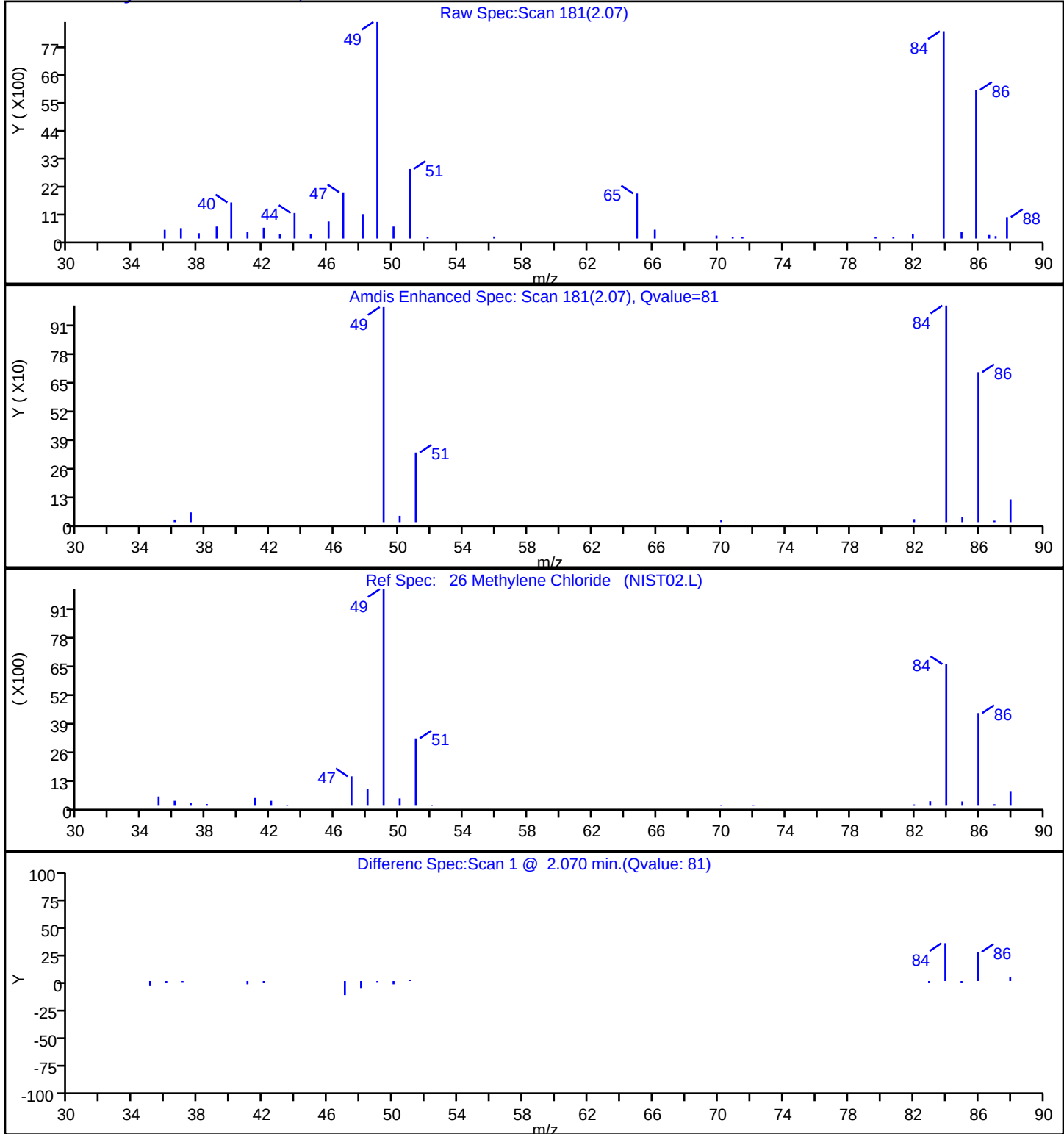
Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

26 Methylene Chloride, CAS: 75-09-2

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180531-72999.b\\O396445.D

Injection Date: 01-Jun-2018 03:16:30

Instrument ID: CVOAMS12

Lims ID: 460-157038-A-4

Lab Sample ID: 460-157038-4

Client ID: NL-TB-20180525

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

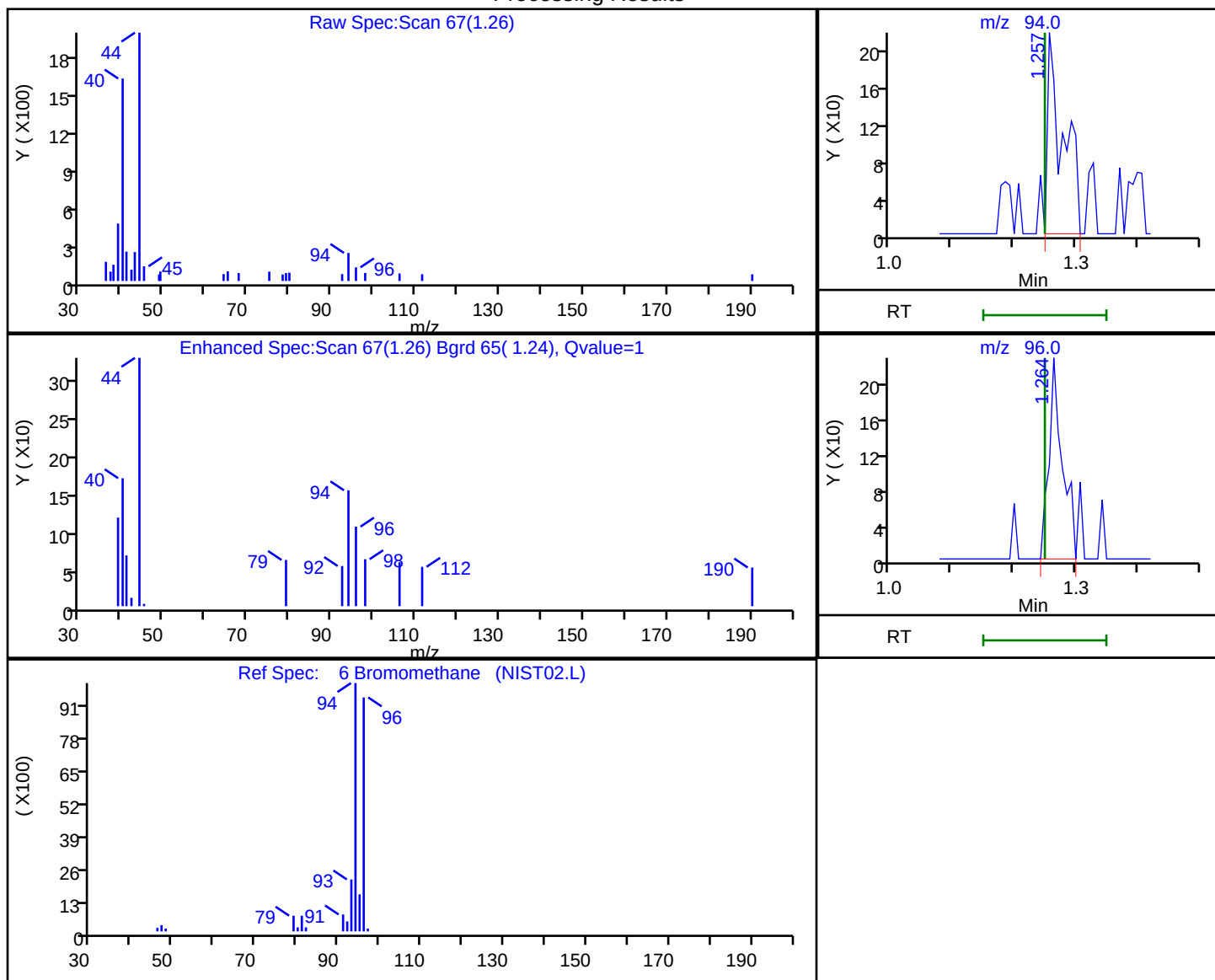
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.26	94.00	373	0.247049
1.26	96.00	343	

Reviewer: starzecm, 01-Jun-2018 11:21:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184

SDG No.: _____

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-522184/3	039393.D
Level 2	STD1 460-522184/4	039394.D
Level 3	STD5 460-522184/5	039395.D
Level 4	STD20 460-522184/6	039396.D
Level 5	STD50 460-522184/7	039397.D
Level 6	STD200 460-522184/8	039398.D
Level 7	STD500 460-522184/9	039399.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 1.7208	1.4672 1.5505	1.2069	1.4595	1.5936	Ave		1.4998				11.5		20.0			
Dichlorodifluoromethane	+++++ 0.3724	0.3926 0.3426	0.3596	0.3268	0.3611	Ave		0.3592			0.1000	6.4		20.0			
Vinyl chloride	+++++ 0.3199	0.3214 0.2801	0.3246	0.2989	0.3049	Ave		0.3083			0.1000	5.6		20.0			
Chloromethane	+++++ 0.4266	0.4432 0.3785	0.3745	0.3946	0.3778	Ave		0.3992			0.1000	7.3		20.0			
Butadiene	0.3109 0.2848	0.2878 0.2438	0.2736	0.2522	0.2640	Ave		0.2739				8.4		20.0			
Bromomethane	+++++ 1.3025	2.5016 1.2472	1.6528	1.2548	1.2814	QuaF		1.3314	-0.000168		0.1000				1.0000		0.9900
Chloroethane	+++++ 0.1683	0.2826 0.1462	0.2408	0.1664	0.1686	QuaF		0.1812	-0.000070		0.1000				1.0000		0.9900
Dichlorofluoromethane	+++++ 0.5549	0.6152 0.4433	0.5602	0.5748	0.5386	Ave		0.5479				10.5		20.0			
Trichlorofluoromethane	+++++ 0.4797	0.5088 0.4431	0.4837	0.4677	0.4859	Ave		0.4782			0.1000	4.6		20.0			
Pentane	+++++ 0.0483	0.0455 0.0417	0.0424	0.0457	0.0466	Ave		0.0450				5.5		20.0			
Ethanol	+++++ 0.0478	0.1295 0.0401	0.0914	0.0523	0.0467	QuaF		0.0523	-0.000001						1.0000		0.9900
Ethyl ether	+++++ 0.2414	0.2433 0.1860	0.2281	0.2659	0.2356	Ave		0.2334				11.3		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.2892	0.2651 0.2294	0.2397	0.2627	0.2568	Ave		0.2571				8.1		20.0			
2-Methyl-1,3-butadiene	+++++ 0.2410	0.2582 0.1855	0.2113	0.2327	0.2133	Ave		0.2237				11.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184
SDG No.: _____
Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	++++ 0.9275	0.9358 0.9667	0.6059	0.7909	0.7551	Ave		0.8303				16.8		20.0			
1,1-Dichloroethene	++++ 0.3045	0.2991 0.2485	0.2508	0.2790	0.2660	Ave		0.2747			0.1000	8.7		20.0			
Freon TF	++++ 0.3069	0.2949 0.2393	0.2505	0.2645	0.2747	Ave		0.2718			0.1000	9.5		20.0			
Acetone	++++ 0.2565	0.4189 0.2095	0.2540	0.2631	0.2399	QuaF		0.2819	-0.000029		0.0500				1.0000		0.9900
Iodomethane	++++ 0.2246	0.3010 ++++	0.2077	0.2100	0.2141	Ave		0.2315				17.0		20.0			
Carbon disulfide	++++ 0.8142	0.9703 0.5790	0.7992	0.9075	0.8589	Ave		0.8215			0.1000	16.4		20.0			
Isopropyl alcohol	++++ 0.5572	0.8093 0.5194	0.5918	0.6655	0.5966	Ave		0.6233				16.6		20.0			
Acetonitrile	++++ 0.3038	0.3755 ++++	0.2986	0.3289	0.3230	Ave		0.3259				9.4		20.0			
Allyl chloride	++++ 0.3479	0.3686 ++++	0.3620	0.4067	0.3608	Ave		0.3692				6.0		20.0			
Methyl acetate	++++ 1.6770	2.1215 1.4012	1.5072	1.7612	1.6732	Ave		1.6902			0.1000	14.7		20.0			
Cyclopentene	++++ 0.6154	0.7128 0.4372	0.5909	0.5990	0.6046	Ave		0.5933				14.9		20.0			
Methylene Chloride	++++ 0.3388	0.4146 0.2668	0.3233	0.3589	0.3294	Ave		0.3386			0.1000	14.3		20.0			
2-Methyl-2-propanol	++++ 1.1134	1.6443 0.9539	1.1069	1.2188	1.1004	QuaF		1.2072	-0.000051						1.0000		0.9900
Acrylonitrile	0.1124 0.0930	0.1199 ++++	0.1103	0.1247	0.1073	Ave		0.1113				9.9		20.0			
trans-1,2-Dichloroethene	++++ 0.3000	0.3286 0.2868	0.2899	0.3256	0.3111	Ave		0.3070			0.1000	5.8		20.0			
MTBE	++++ 0.7985	0.9886 ++++	0.9299	1.0666	0.9630	Ave		0.9493			0.1000	10.3		20.0			
Hexane	++++ 0.3365	0.3193 0.2610	0.2609	0.3024	0.2984	Ave		0.2964				10.3		20.0			
1,1-Dichloroethane	++++ 0.4443	0.4318 0.4080	0.4063	0.4680	0.4142	Ave		0.4288			0.2000	5.7		20.0			
Vinyl acetate	++++ 0.4350	0.6275 0.4270	0.4239	0.5908	0.5422	Ave		0.5077				17.9		20.0			
2-Chloro-1,3-butadiene	++++ 0.2519	0.2477 0.2270	0.2247	0.2516	0.2480	Ave		0.2418				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184
SDG No.: _____
Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isopropyl ether	++++ 0.6423	0.7706 ++++	0.7062	0.8048	0.7436	Ave		0.7335				8.5		20.0			
Tert-butyl ethyl ether	++++ 0.7547	0.8149 0.5216	0.7517	0.8535	0.7732	Ave		0.7449				15.6		20.0			
cis-1,2-Dichloroethene	++++ 0.3293	0.3791 0.2948	0.2879	0.3253	0.3070	Ave		0.3206			0.1000	10.3		20.0			
2,2-Dichloropropane	++++ 0.1032	0.1139 0.0921	0.0884	0.0963	0.0918	Ave		0.0976				9.7		20.0			
2-Butanone	++++ 0.3598	0.3405 0.3006	0.3257	0.3584	0.3459	Ave		0.3385			0.0500	6.6		20.0			
Propionitrile	++++ 0.2456	0.2619 0.2180	0.2199	0.2597	0.2336	Ave		0.2398				8.0		20.0			
Ethyl acetate	++++ 0.3237	0.3416 0.2855	0.2899	0.3188	0.2975	Ave		0.3095				7.1		20.0			
Methyl acrylate	++++ 0.2816	0.3257 0.2800	0.2528	0.3010	0.2720	Ave		0.2855				8.8		20.0			
Methacrylonitrile	++++ 0.1076	0.1297 ++++	0.1205	0.1381	0.1262	Ave		0.1244				9.1		20.0			
Chlorobromomethane	++++ 0.1835	0.1608 0.1676	0.1613	0.1867	0.1774	Ave		0.1729				6.5		20.0			
Tetrahydrofuran	++++ 0.7493	0.8867 0.6270	0.6459	0.7889	0.7565	Ave		0.7424				12.9		20.0			
Chloroform	++++ 0.4779	0.5133 0.3561	0.4578	0.5075	0.4629	Ave		0.4626			0.2000	12.3		20.0			
1,1,1-Trichloroethane	++++ 0.4574	0.4441 0.3528	0.3988	0.4230	0.4182	Ave		0.4157			0.1000	8.9		20.0			
Cyclohexane	++++ 0.4094	0.3953 0.3098	0.3363	0.3530	0.3693	Ave		0.3622			0.1000	10.2		20.0			
1,1-Dichloropropene	++++ 0.3905	0.3744 0.2931	0.3388	0.3549	0.3489	Ave		0.3501				9.6		20.0			
Carbon tetrachloride	++++ 0.4296	0.3747 0.3362	0.3467	0.3629	0.3724	Ave		0.3704			0.1000	8.8		20.0			
Isobutyl alcohol	++++ 0.3973	0.3558 0.3641	0.3082	0.3801	0.3780	Ave		0.3639				8.5		20.0			
Benzene	++++ 0.9969	1.2144 ++++	1.0498	1.2051	1.1087	Ave		1.1150			0.5000	8.5		20.0			
1,2-Dichloroethane	++++ 0.3515	0.4757 0.3063	0.3836	0.4249	0.3903	Ave		0.3887			0.1000	15.0		20.0			
2,2,4-Trimethylpentane	++++ 0.6777	0.6612 0.4778	0.5569	0.6066	0.6351	Ave		0.6025				12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184
SDG No.: _____
Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isopropyl acetate	++++ 0.1193	0.1179 0.1013	0.1082	0.1210	0.1113	Ave		0.1132				6.7		20.0			
Tert-amyl methyl ether	++++ 0.8315	0.8713 ++++	0.8143	0.9350	0.8604	Ave		0.8625				5.4		20.0			
n-Heptane	++++ 0.2955	0.2914 0.2479	0.2175	0.2710	0.2689	Ave		0.2654				11.0		20.0			
Trichloroethene	++++ 0.3276	0.3299 0.2647	0.2855	0.3054	0.2897	Ave		0.3005			0.2000	8.5		20.0			
n-Butanol	++++ 0.2991	0.2717 0.2510	0.2093	0.2759	0.2693	Ave		0.2627				11.6		20.0			
Ethyl acrylate	++++ 0.4185	0.3608 0.3527	0.3483	0.4061	0.3736	Ave		0.3767				7.7		20.0			
Methylcyclohexane	++++ 0.4879	0.4573 0.3638	0.3777	0.4309	0.4395	Ave		0.4262			0.1000	11.1		20.0			
1,2-Dichloropropane	++++ 0.2798	0.2772 0.2185	0.2462	0.2873	0.2623	Ave		0.2619			0.1000	9.9		20.0			
Dibromomethane	++++ 0.2124	0.2128 0.1716	0.1963	0.2170	0.1969	Ave		0.2012				8.4		20.0			
Methyl methacrylate	++++ 0.1053	0.0969 0.0903	0.0891	0.1045	0.0991	Ave		0.0976				7.0		20.0			
1,4-Dioxane	++++ 1.1165	1.2481 0.9120	1.0724	1.2398	1.1361	Ave		1.1208				11.0		20.0			
n-Propyl acetate	++++ 0.4146	0.3770 0.3310	0.3668	0.4284	0.3949	Ave		0.3855				9.1		20.0			
Bromodichloromethane	++++ 0.4092	0.3911 0.3083	0.3721	0.4158	0.3866	Ave		0.3805			0.2000	10.2		20.0			
2-Nitropropane	++++ 0.0925	0.0616 0.0915	0.0686	0.0829	0.0780	Ave		0.0792				15.6		20.0			
2-Chloroethyl vinyl ether	++++ 0.2259	0.2197 0.2155	0.2070	0.2311	0.2113	Ave		0.2184				4.1		20.0			
Epichlorohydrin	0.2854 0.3012	0.3060 0.2407	0.2794	0.3252	0.2999	Ave		0.2911				9.2		20.0			
cis-1,3-Dichloropropene	++++ 0.5016	0.5255 0.3722	0.4599	0.5389	0.4880	Ave		0.4810			0.2000	12.5		20.0			
4-Methyl-2-pentanone	++++ 2.1091	2.4396 ++++	2.3718	2.7290	2.5065	Ave		2.4312			0.0500	9.2		20.0			
Toluene	++++ 1.1573	1.5584 ++++	1.3069	1.4095	1.3166	Ave		1.3497			0.4000	10.9		20.0			
trans-1,3-Dichloropropene	++++ 0.4974	0.4688 0.3758	0.4504	0.5236	0.4766	Ave		0.4654			0.1000	10.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184
SDG No.: _____
Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	++++ 0.4532	0.4462 0.3589	0.4106	0.4770	0.4358	Ave		0.4303				9.6		20.0			
1,1,2-Trichloroethane	++++ 0.2577	0.2569 0.2073	0.2438	0.2745	0.2490	Ave		0.2482			0.1000	9.1		20.0			
Tetrachloroethene	++++ 0.4345	0.3895 0.3454	0.3334	0.3967	0.3865	Ave		0.3810			0.2000	9.6		20.0			
1,3-Dichloropropane	++++ 0.5012	0.5006 0.3663	0.4856	0.5509	0.4897	Ave		0.4824				12.8		20.0			
2-Hexanone	++++ 1.6464	1.8426 ++++	1.7041	1.9614	1.8347	Ave		1.7979			0.0500	6.9		20.0			
Dibromochloromethane	++++ 0.4178	0.3649 0.3449	0.3503	0.4105	0.3885	Ave		0.3795			0.1000	8.1		20.0			
n-Butyl acetate	++++ 0.5036	0.5229 0.3898	0.4542	0.5264	0.4844	Ave		0.4802				10.8		20.0			
1,2-Dibromoethane	++++ 0.3646	0.3518 0.2886	0.3290	0.3815	0.3532	Ave		0.3448			0.1000	9.4		20.0			
Chlorobenzene	++++ 0.9338	1.0435 ++++	0.9280	1.0227	0.9508	Ave		0.9757			0.5000	5.5		20.0			
1,1,1,2-Tetrachloroethane	++++ 0.3807	0.3452 0.3414	0.3164	0.3756	0.3483	Ave		0.3513				6.8		20.0			
Ethylbenzene	++++ 0.5209	0.5533 0.4166	0.4820	0.5297	0.5074	Ave		0.5017			0.1000	9.6		20.0			
m-Xylene & p-Xylene	++++ 0.6478	0.6680 0.5114	0.6091	0.6755	0.6285	Ave		0.6234			0.1000	9.6		20.0			
o-Xylene	++++ 0.6512	0.6499 0.5210	0.6013	0.6619	0.6273	Ave		0.6188			0.3000	8.5		20.0			
Styrene	++++ 0.9904	1.1562 ++++	1.0267	1.1690	1.0964	Ave		1.0878			0.3000	7.2		20.0			
n-Butyl acrylate	++++ 0.2591	0.2602 0.2287	0.2432	0.2887	0.2766	Ave		0.2594				8.4		20.0			
Bromoform	++++ 0.3508	0.2599 0.3162	0.2466	0.3163	0.3068	Ave		0.2994			0.1000	13.0		20.0			
Amyl acetate (mixed isomers)	++++ 0.9263	0.8339 0.7017	0.9077	0.9850	0.8962	Ave		0.8751				11.2		20.0			
Isopropylbenzene	++++ 1.3452	1.6303 ++++	1.4515	1.6166	1.5058	Ave		1.5099			0.1000	7.9		20.0			
Bromobenzene	++++ 0.7978	0.8250 0.6154	0.7408	0.8204	0.7601	Ave		0.7599				10.3		20.0			
1,1,2,2-Tetrachloroethane	++++ 0.6908	0.7949 0.5762	0.6964	0.7759	0.6820	Ave		0.7027			0.3000	11.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184
SDG No.: _____
Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichloropropane	++++ 0.2465	0.2421 0.2115	0.2367	0.2556	0.2313	Ave		0.2373				6.4		20.0			
trans-1,4-Dichloro-2-butene	++++ 0.2180	0.2172 0.2088	0.1977	0.2220	0.1978	Ave		0.2102				5.1		20.0			
N-Propylbenzene	++++ 2.2523	2.9822 ++++	2.6716	2.8018	2.5672	Ave		2.6550				10.3		20.0			
2-Chlorotoluene	++++ 1.5794	2.1096 ++++	1.8270	1.8869	1.7085	Ave		1.8223				10.9		20.0			
4-Ethyltoluene	++++ 2.1044	2.6698 ++++	2.3089	2.4951	2.3155	Ave		2.3788				9.0		20.0			
4-Chlorotoluene	++++ 1.5398	2.2869 ++++	1.6939	1.9238	1.7507	Ave		1.8390				15.5		20.0			
1,3,5-Trimethylbenzene	++++ 1.6915	2.1503 ++++	1.8008	1.9896	1.8631	Ave		1.8990				9.3		20.0			
Butyl Methacrylate	++++ 0.7972	0.6596 0.6402	0.6936	0.8030	0.7574	Ave		0.7252				9.7		20.0			
tert-Butylbenzene	++++ 1.6867	1.9104 ++++	1.7720	1.8800	1.7580	Ave		1.8014				5.1		20.0			
1,2,4-Trimethylbenzene	++++ 1.7572	1.9729 ++++	1.7098	1.9408	1.8216	Ave		1.8404				6.2		20.0			
sec-Butylbenzene	++++ 2.0732	2.6790 ++++	2.3494	2.5475	2.3725	Ave		2.4043				9.5		20.0			
1,3-Dichlorobenzene	++++ 1.3509	1.5037 ++++	1.3118	1.4638	1.3584	Ave		1.3977			0.6000	5.8		20.0			
1,4-Dichlorobenzene	++++ 1.3302	1.6373 ++++	1.4026	1.5178	1.4178	Ave		1.4611			0.5000	8.1		20.0			
4-Isopropyltoluene	++++ 1.8176	2.2369 ++++	1.9748	2.2147	2.0947	Ave		2.0677				8.5		20.0			
1,2,3-Trimethylbenzene	++++ 1.6716	1.9801 ++++	1.7696	2.0355	1.8910	Ave		1.8696				8.0		20.0			
Benzyl chloride	++++ 0.3304	0.3447 0.2777	0.3006	0.3431	0.3257	Ave		0.3204				8.2		20.0			
Indan	++++ 1.7783	2.5633 ++++	2.3154	2.5225	2.2985	Ave		2.2956				13.6		20.0			
1,2-Dichlorobenzene	++++ 1.2050	1.4979 ++++	1.3321	1.4340	1.3421	Ave		1.3622			0.4000	8.2		20.0			
p-Diethylbenzene	++++ 1.1620	1.1421 0.7685	0.9760	1.1149	1.0990	Ave		1.0438				14.3		20.0			
n-Butylbenzene	++++ 0.9141	0.9495 0.6433	0.7481	0.8976	0.8849	Ave		0.8396				14.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184
SDG No.: _____
Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	++++ 0.1676	0.1585 0.1557	0.1560	0.1719	0.1568	Ave		0.1611			0.0500	4.3		20.0			
1,2,4,5-Tetramethylbenzene	++++ 1.1206	1.2937 ++++	1.0597	1.2815	1.1850	Ave		1.1881				8.5		20.0			
1,3,5-Trichlorobenzene	++++ 0.8526	0.7124 0.5673	0.6514	0.7998	0.7884	Ave		0.7287				14.6		20.0			
1,2,4-Trichlorobenzene	++++ 0.7689	0.6350 0.5245	0.5273	0.6867	0.6957	Ave		0.6397			0.2000	15.3		20.0			
Hexachlorobutadiene	++++ 0.4120	0.3865 0.3241	0.3128	0.3472	0.3716	Ave		0.3590				10.6		20.0			
Naphthalene	++++ 1.2396	1.5015 ++++	1.1714	1.4748	1.4023	Ave		1.3579				10.7		20.0			
1,2,3-Trichlorobenzene	++++ 0.7016	0.5829 0.4919	0.5156	0.6347	0.6327	Ave		0.5933				13.4		20.0			
Dibromofluoromethane (Surr)	0.2345 0.2549	0.2611 0.2416	0.2404	0.2545	0.2379	Ave		0.2464				4.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2647 0.2721	0.2909 0.2516	0.2672	0.2762	0.2509	Ave		0.2676				5.2		20.0			
Toluene-d8 (Surr)	1.0468 1.1210	1.1677 1.0136	1.0574	1.1344	1.0549	Ave		1.0851				5.2		20.0			
Bromofluorobenzene	0.4051 0.5097	0.4746 0.4675	0.4336	0.4808	0.4660	Ave		0.4625				7.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184

SDG No.: _____

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-522184/3	039393.D
Level 2	STD1 460-522184/4	039394.D
Level 3	STD5 460-522184/5	039395.D
Level 4	STD20 460-522184/6	039396.D
Level 5	STD50 460-522184/7	039397.D
Level 6	STD200 460-522184/8	039398.D
Level 7	STD500 460-522184/9	039399.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	BUT	Ave	++++ 386236	1078 977898	6716	30857	90240	++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	++++ 755502	2620 1940848	17356	60526	187677	++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	++++ 649019	2145 1586824	15663	55368	158491	++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	++++ 865426	2958 2144252	18075	73082	196356	++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	540 577884	1921 1381379	13206	46720	137187	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	BUT	QuaF	++++ 292351	1838 786584	9197	26531	72560	++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	QuaF	++++ 341389	1886 828442	11619	30822	87603	++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	++++ 1125840	4106 2511358	27035	106473	279939	++++ 200	1.00 500	5.00	20.0	50.0
Trichlorofluoromethane	FB	Ave	++++ 973269	3396 2510285	23343	86623	252554	++++ 200	1.00 500	5.00	20.0	50.0
Pentane	FB	Ave	++++ 195774	608 472687	4094	16928	48391	++++ 400	2.00 1000	10.0	40.0	100
Ethanol	TBAd 9	QuaF	++++ 136376	1254 313578	6635	14281	33544	++++ 8000	40.0 20000	200	800	2000
Ethyl ether	FB	Ave	++++ 489644	1624 1053596	11007	49254	122456	++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	++++ 586637	1769 1299468	11569	48665	133482	++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	++++ 488851	1723 1050682	10199	43110	110881	++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd 9	Ave	++++ 66157	906 151169	4399	10801	27121	++++ 200	4.00 400	20.0	40.0	100

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SDG No.: _____

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	++++ 617819	1996 1407936	12103	51684	138255	++++ 200	1.00 500	5.00	20.0	50.0
Freon TF	FB	Ave	++++ 622588	1968 1355639	12088	48995	142758	++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	QuaF	++++ 287912	1539 660793	7068	27809	67930	++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Ave	++++ 455601	2009 ++++	10023	38906	111264	++++ 200	1.00 ++++	5.00	20.0	50.0
Carbon disulfide	FB	Ave	++++ 1651766	6476 3280339	38570	168098	446376	++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd 9	Ave	++++ 397435	1959 1015292	10741	45447	107142	++++ 2000	10.0 5000	50.0	200	500
Acetonitrile	TBAd 9	Ave	++++ 216675	909 ++++	5419	22456	58011	++++ 2000	10.0 ++++	50.0	200	500
Allyl chloride	FB	Ave	++++ 705819	2460 ++++	17470	75329	187539	++++ 200	1.00 ++++	5.00	20.0	50.0
Methyl acetate	TBAd 9	Ave	++++ 239248	1027 547822	5471	24053	60098	++++ 400	2.00 1000	10.0	40.0	100
Cyclopentene	FB	Ave	++++ 1248417	4757 2476970	28514	110955	314228	++++ 200	1.00 500	5.00	20.0	50.0
Methylene Chloride	FB	Ave	++++ 687410	2767 1511197	15602	66480	171174	++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd 9	QuaF	++++ 794199	3980 1864630	20090	83229	197627	++++ 2000	10.0 5000	50.0	200	500
Acrylonitrile	FB	Ave	1561 1887239	8000 ++++	53246	230989	557758	2.00 2000	10.0 ++++	50.0	200	500
trans-1,2-Dichloroethene	FB	Ave	++++ 608666	2193 1624857	13992	60308	161710	++++ 200	1.00 500	5.00	20.0	50.0
MTBE	FB	Ave	++++ 1620015	6598 ++++	44877	197555	500492	++++ 200	1.00 ++++	5.00	20.0	50.0
Hexane	FB	Ave	++++ 682633	2131 1478461	12589	56014	155112	++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	++++ 901382	2882 2311299	19607	86688	215282	++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	BUT	Ave	++++ 195264	922 538559	4718	24981	61404	++++ 400	2.00 1000	10.0	40.0	100
2-Chloro-1,3-butadiene	FB	Ave	++++ 511035	1653 1285832	10843	46602	128878	++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl ether	FB	Ave	++++ 1303079	5143 ++++	34080	149068	386458	++++ 200	1.00 ++++	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	++++ 1531026	5439 2954806	36274	158084	401870	++++ 200	1.00 500	5.00	20.0	50.0

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RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184

SDG No.: _____

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	+++++ 668014	2530 1669966	13896	60258	159571	+++++ 200	1.00 500	5.00	20.0	50.0
2,2-Dichloropropane	FB	Ave	+++++ 209462	760 521957	4265	17846	47695	+++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone	BUT	Ave	+++++ 403794	1251 947867	9063	37890	97943	+++++ 1000	5.00 2500	25.0	100	250
Propionitrile	TBAd 9	Ave	+++++ 175225	634 426124	3991	17732	41955	+++++ 2000	10.0 5000	50.0	200	500
Ethyl acetate	BUT	Ave	+++++ 145321	502 360083	3226	13481	33692	+++++ 400	2.00 1000	10.0	40.0	100
Methyl acrylate	FB	Ave	+++++ 571316	2174 1586373	12201	55743	141360	+++++ 200	1.00 500	5.00	20.0	50.0
Methacrylonitrile	FB	Ave	+++++ 2183429	8655 +++++	58168	255875	655658	+++++ 2000	10.0 +++++	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 372332	1073 949371	7783	34584	92221	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 336348	1303 790852	7188	33360	85670	+++++ 400	2.00 1000	10.0	40.0	100
Chloroform	FB	Ave	+++++ 969517	3426 2017314	22094	93997	240570	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 927961	2964 1998599	19245	78356	217345	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 830561	2638 1754829	16228	65378	191943	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 792130	2499 1660709	16349	65730	181310	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 871585	2501 1904652	16730	67222	193529	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd 9	Ave	+++++ 708510	2153 1779200	13983	64881	169721	+++++ 5000	25.0 12500	125	500	1250
Benzene	CBNZ d5	Ave	+++++ 1898589	7346 +++++	46768	203267	532531	+++++ 200	1.00 +++++	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 713135	3175 1735408	18510	78692	202847	+++++ 200	1.00 500	5.00	20.0	50.0
2,2,4-Trimethylpentane	FB	Ave	+++++ 1374945	4413 2706607	26876	112357	330057	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 241988	787 573694	5224	22415	57845	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 1686854	5815 +++++	39296	173183	447162	+++++ 200	1.00 +++++	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 599408	1945 1404435	10494	50193	139750	+++++ 200	1.00 500	5.00	20.0	50.0

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RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184

SDG No.: _____

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Trichloroethene	FB	Ave	++++ 664687	2202 1499394	13778	56566	150551	++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd 9	Ave	++++ 533309	1644 1226846	9495	47104	120924	++++ 5000	25.0 12500	125	500	1250
Ethyl acrylate	FB	Ave	++++ 849022	2408 1997961	16808	75220	194188	++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	++++ 989870	3052 2061066	18226	79821	228418	++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	++++ 567740	1850 1237779	11880	53215	136313	++++ 200	1.00 500	5.00	20.0	50.0
Dibromomethane	FB	Ave	++++ 430906	1420 972043	9471	40198	102340	++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	++++ 427432	1294 1023604	8599	38721	103017	++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	++++ 201378	1696 484030	4442	19315	49185	++++ 4000	50.0 10000	100	400	1000
n-Propyl acetate	FB	Ave	++++ 841176	2516 1874922	17701	79353	205265	++++ 200	1.00 500	5.00	20.0	50.0
Bromodichloromethane	FB	Ave	++++ 830062	2610 1746504	17955	77020	200909	++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Ave	++++ 375455	822 1036774	6620	30692	81027	++++ 400	2.00 1000	10.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	++++ 458217	1466 1221052	9990	42799	109840	++++ 200	1.00 500	5.00	20.0	50.0
Epichlorohydrin	BUT	Ave	1117 1352319	4497 3035932	31092	137509	339624	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZ d5	Ave	++++ 955240	3179 2018319	20489	90905	234388	++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone	BUT	Ave	++++ 2366945	8962 ++++	65988	288490	709664	++++ 1000	5.00 ++++	25.0	100	250
Toluene	CBNZ d5	Ave	++++ 2203995	9427 ++++	58220	237744	632410	++++ 200	1.00 ++++	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	++++ 947289	2836 2038194	20063	88321	228911	++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	++++ 863132	2699 1946449	18293	80463	209328	++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 490844	1554 1124402	10861	46295	119602	++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	++++ 827551	2356 1873044	14855	66906	185670	++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 954422	3028 1986699	21634	92930	235201	++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184

SDG No.: _____

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Hexanone	BUT	Ave	++++ 1847693	6769 ++++	47412	207352	519458	++++ 1000	5.00 ++++	25.0	100	250
Dibromochloromethane	CBNZ d5	Ave	++++ 795610	2207 1870616	15605	69242	186591	++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acetate	CBNZ d5	Ave	++++ 959061	3163 2113959	20233	88794	232691	++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 694362	2128 1565052	14655	64346	169671	++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	++++ 1778468	6312 ++++	41343	172494	456680	++++ 200	1.00 ++++	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 725002	2088 1851509	14094	63358	167304	++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	++++ 992033	3347 2259271	21475	89342	243743	++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	++++ 1233684	4041 2773447	27134	113935	301902	++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	++++ 1240145	3931 2825747	26786	111652	301291	++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	++++ 1886135	6994 ++++	45741	197182	526662	++++ 200	1.00 ++++	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Ave	++++ 493468	1574 1240138	10835	48689	132840	++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	++++ 668068	1572 1714615	10987	53353	147380	++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Ave	++++ 1144963	3014 2393722	24132	105241	277676	++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	++++ 2561892	9862 ++++	64665	272669	723301	++++ 200	1.00 ++++	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	++++ 986165	2982 2099252	19696	87659	235514	++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 853869	2873 1965657	18515	82906	211299	++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	++++ 304709	875 721585	6293	27314	71674	++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 269467	785 712109	5255	23725	61277	++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	++++ 2784023	10779 ++++	71027	299365	795413	++++ 200	1.00 ++++	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	++++ 1952217	7625 ++++	48573	201611	529368	++++ 200	1.00 ++++	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	++++ 2601257	9650 ++++	61384	266590	717436	++++ 200	1.00 ++++	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184

SDG No.: _____

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Chlorotoluene	DCBd 4	Ave	++++ 1903329	8266 ++++	45033	205555	542424	++++ 200	1.00 ++++	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 2090784	7772 ++++	47875	212579	577256	++++ 200	1.00 ++++	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Ave	++++ 985471	2384 2183811	18440	85794	234675	++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	++++ 2084901	6905 ++++	47110	200870	544683	++++ 200	1.00 ++++	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	++++ 2172055	7131 ++++	45456	207364	564389	++++ 200	1.00 ++++	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	++++ 2562605	9683 ++++	62462	272196	735079	++++ 200	1.00 ++++	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 1669871	5435 ++++	34876	156406	420867	++++ 200	1.00 ++++	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 1644208	5918 ++++	37290	162168	439290	++++ 200	1.00 ++++	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	++++ 2246672	8085 ++++	52502	236637	649021	++++ 200	1.00 ++++	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	++++ 2066184	7157 ++++	47045	217488	585908	++++ 200	1.00 ++++	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	++++ 408358	1246 947224	7992	36664	100918	++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	++++ 2198078	9265 ++++	61556	269525	712156	++++ 200	1.00 ++++	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 1489530	5414 ++++	35415	153214	415846	++++ 200	1.00 ++++	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	++++ 1436283	4128 2621540	25948	119128	340508	++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	++++ 1129939	3432 2194345	19888	95910	274184	++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 207119	573 531151	4147	18371	48591	++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	++++ 1385177	4676 ++++	28173	136925	367142	++++ 200	1.00 ++++	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	++++ 1053887	2575 1935003	17318	85460	244286	++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 950462	2295 1789050	14018	73368	215538	++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 509215	1397 1105454	8316	37099	115138	++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	++++ 1532273	5427 ++++	31143	157573	434470	++++ 200	1.00 ++++	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 522184

SDG No.: _____

Instrument ID: CVOAMS12 GC Column: DB-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/24/2018 13:51 Calibration End Date: 05/24/2018 16:43 Calibration ID: 68786

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 867280	2107 1678073	13707	67820	196038	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	81448 129300	87119 136888	116028	117852	123637	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	91941 138015	97058 142534	128925	127881	130396	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	332440 533741	353181 549701	471086	478341	506686	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Bromofluorobenzene	CBNZ d5	Ave	128663 242687	143529 253520	193146	202752	223829	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 24-May-2018 13:51:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD7
 Misc. Info.: 460-0072608-003
 Operator ID: Instrument ID: CVOAMS12
 Sublist: chrom-8260W_12*sub10
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 27-May-2018 12:12:22 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: martineze

Date: 25-May-2018 13:49:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Butadiene	54	1.093	1.093	0.000	96	540	0.2500	0.2838	a
* 27 TBA-d9 (IS)	65	2.101	2.122	-0.021	0	248254	1000.0	1000.0	
29 Acrylonitrile	53	2.229	2.237	-0.008	90	1561	2.00	2.02	
* 38 2-Butanone-d5	46	2.966	2.973	-0.007	0	195722	250.0	250.0	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	96	81448	50.0	47.6	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	91941	50.0	49.5	
* 61 Fluorobenzene	96	4.024	4.024	0.000	99	347336	50.0	50.0	
* 68 1,4-Dioxane-d8	96	4.739	4.754	-0.015	0	27520	1000.0	1000.0	
76 Epichlorohydrin	57	5.376	5.368	0.008	94	1117	5.00	4.90	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	99	332440	50.0	48.2	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	86	317582	50.0	50.0	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	92	128663	50.0	43.8	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	95	185144	50.0	50.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260SURR250_00174	Amount Added: 1.00	Units: uL	
ACROLEIN W_00077	Amount Added: 0.00	Units: uL	
ACRY/EPIH MIX_00049	Amount Added: 20.00	Units: uL	
Ethanol mix_00015	Amount Added: 0.00	Units: uL	
MIX 2 Hi_00070	Amount Added: 0.00	Units: uL	
MIX I Hi_00094	Amount Added: 0.00	Units: uL	
14DIOXINTER_00084	Amount Added: 0.00	Units: uL	
GASES Li_00261	Amount Added: 2.50	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: STD7

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

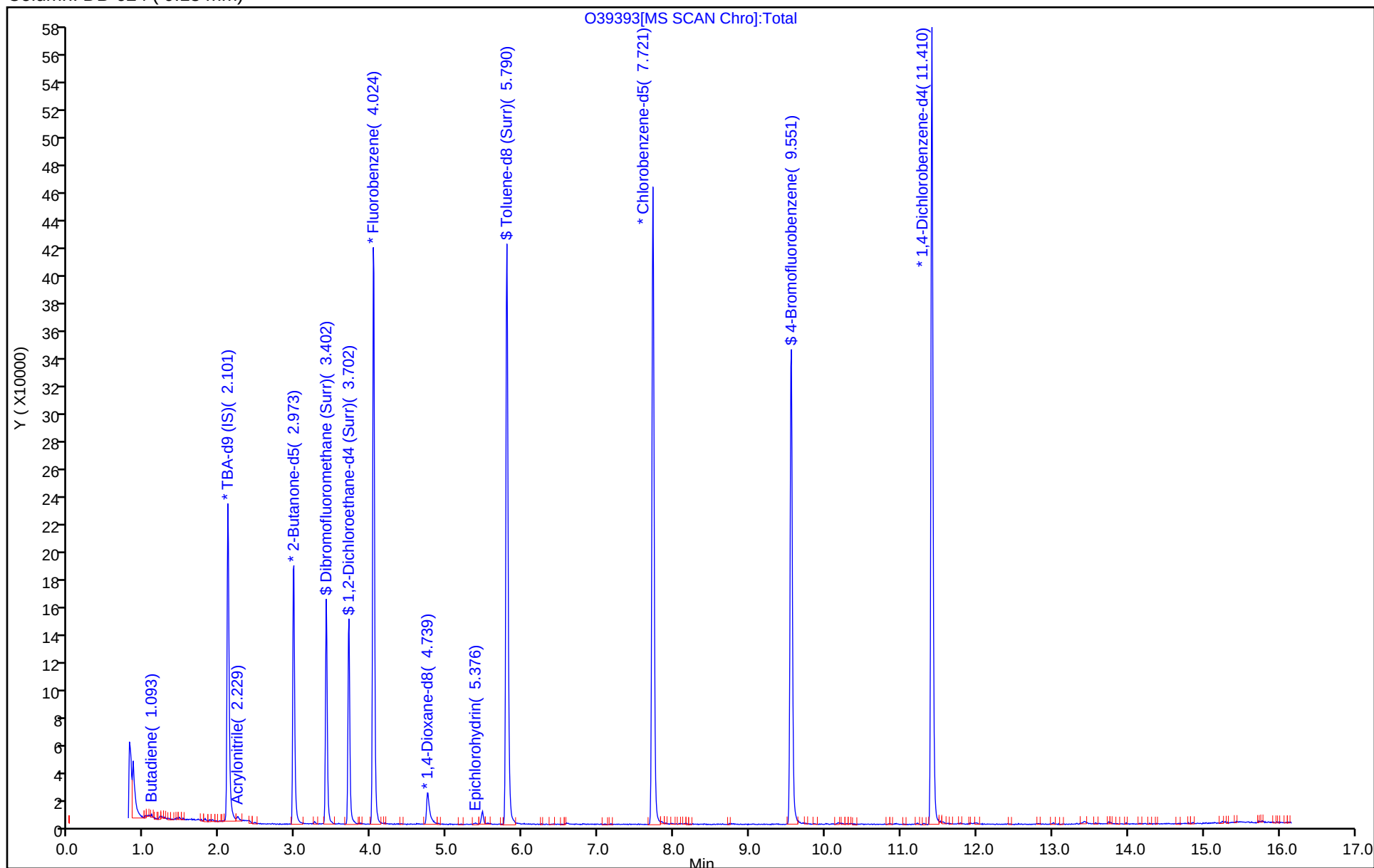
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

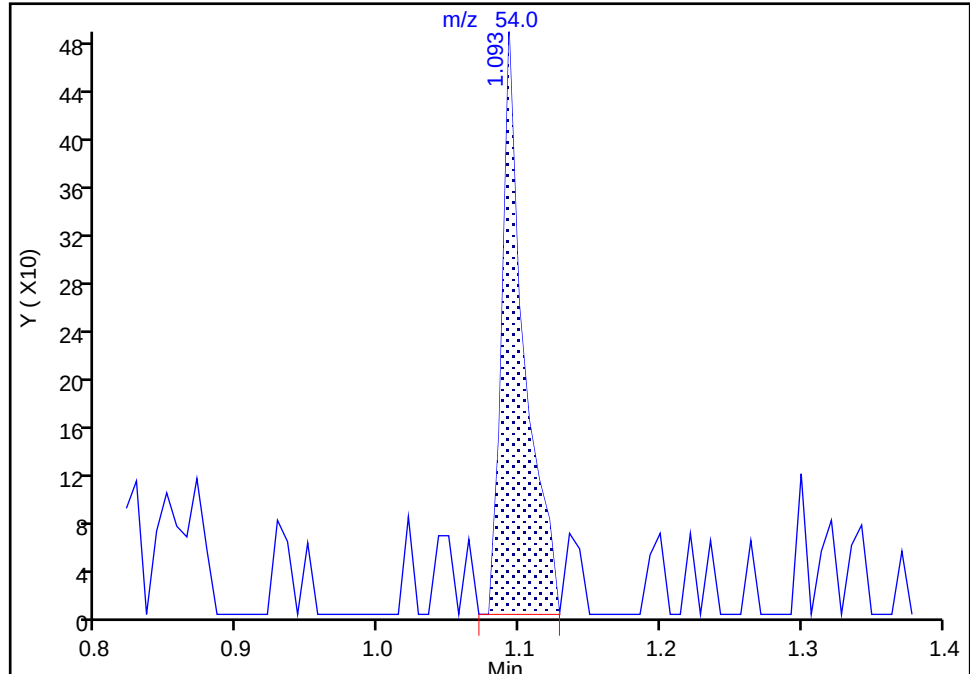
Detector: MS SCAN

5 Butadiene, CAS: 106-99-0

Signal: 1

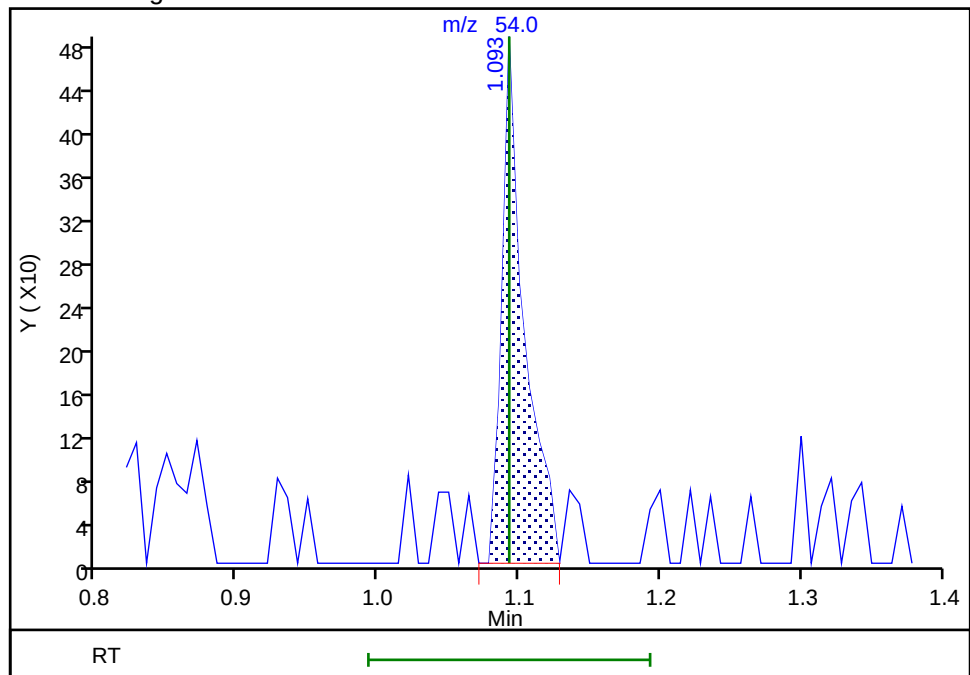
RT: 1.09
Area: 540
Amount: 0.283806
Amount Units: ug/l

Processing Integration Results



RT: 1.09
Area: 540
Amount: 0.283806
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:32:11

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

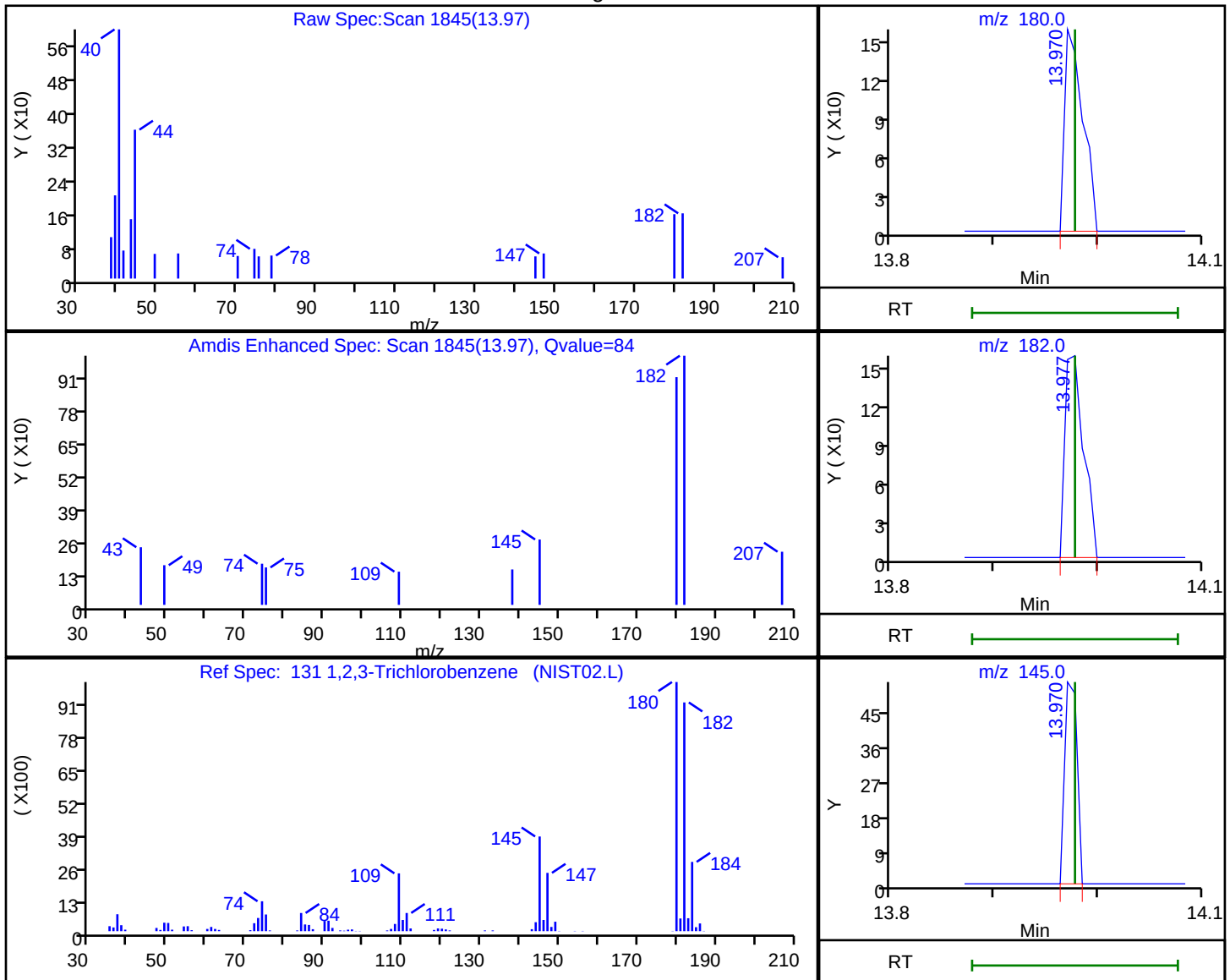
Column: DB-624 (0.18 mm)

Detector

MS SCAN

131 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
13.97	180.00	188	0.085581
13.98	182.00	199	
13.97	145.00	44	

Reviewer: pakanatir, 24-May-2018 18:10:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

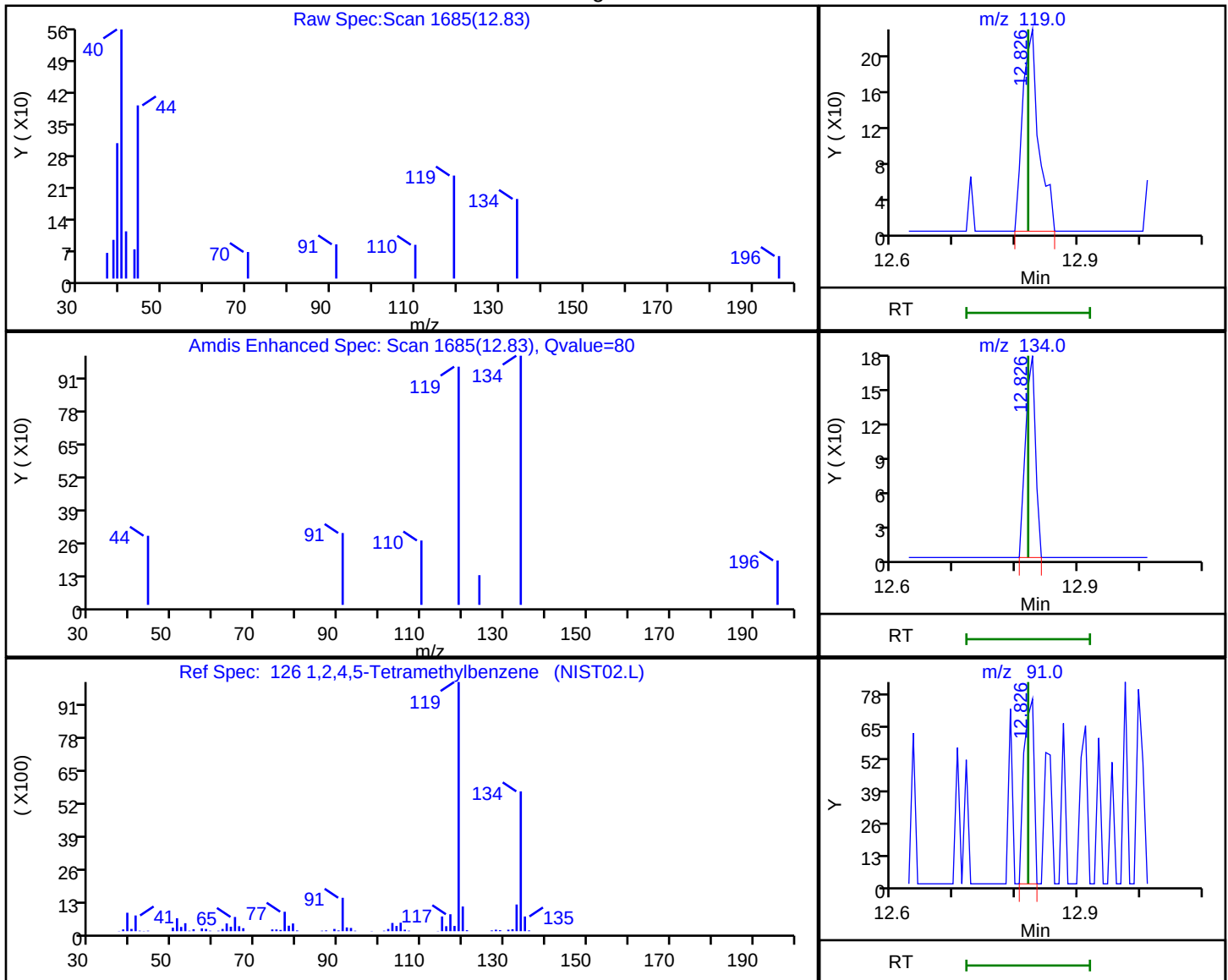
Column: DB-624 (0.18 mm)

Detector

MS SCAN

126 1,2,4,5-Tetramethylbenzene, CAS: 95-93-2

Processing Results



RT	Mass	Response	Amount
12.83	119.00	411	0.099786
12.83	134.00	197	
12.83	91.00	85	

Reviewer: pakanatir, 24-May-2018 18:10:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

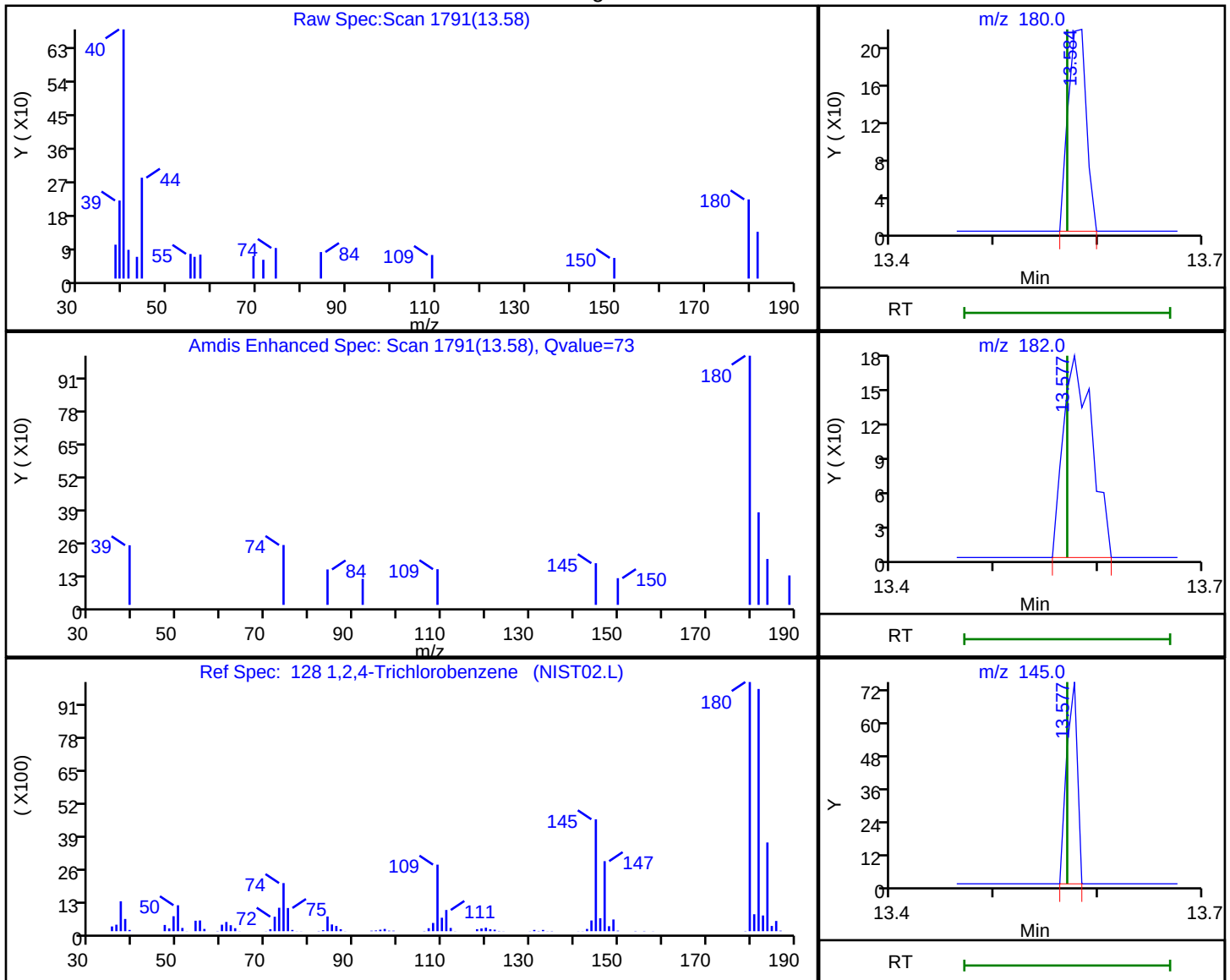
Column: DB-624 (0.18 mm)

Detector

MS SCAN

128 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
13.58	180.00	265	0.111882
13.58	182.00	330	
13.58	145.00	54	

Reviewer: pakanatir, 24-May-2018 18:10:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

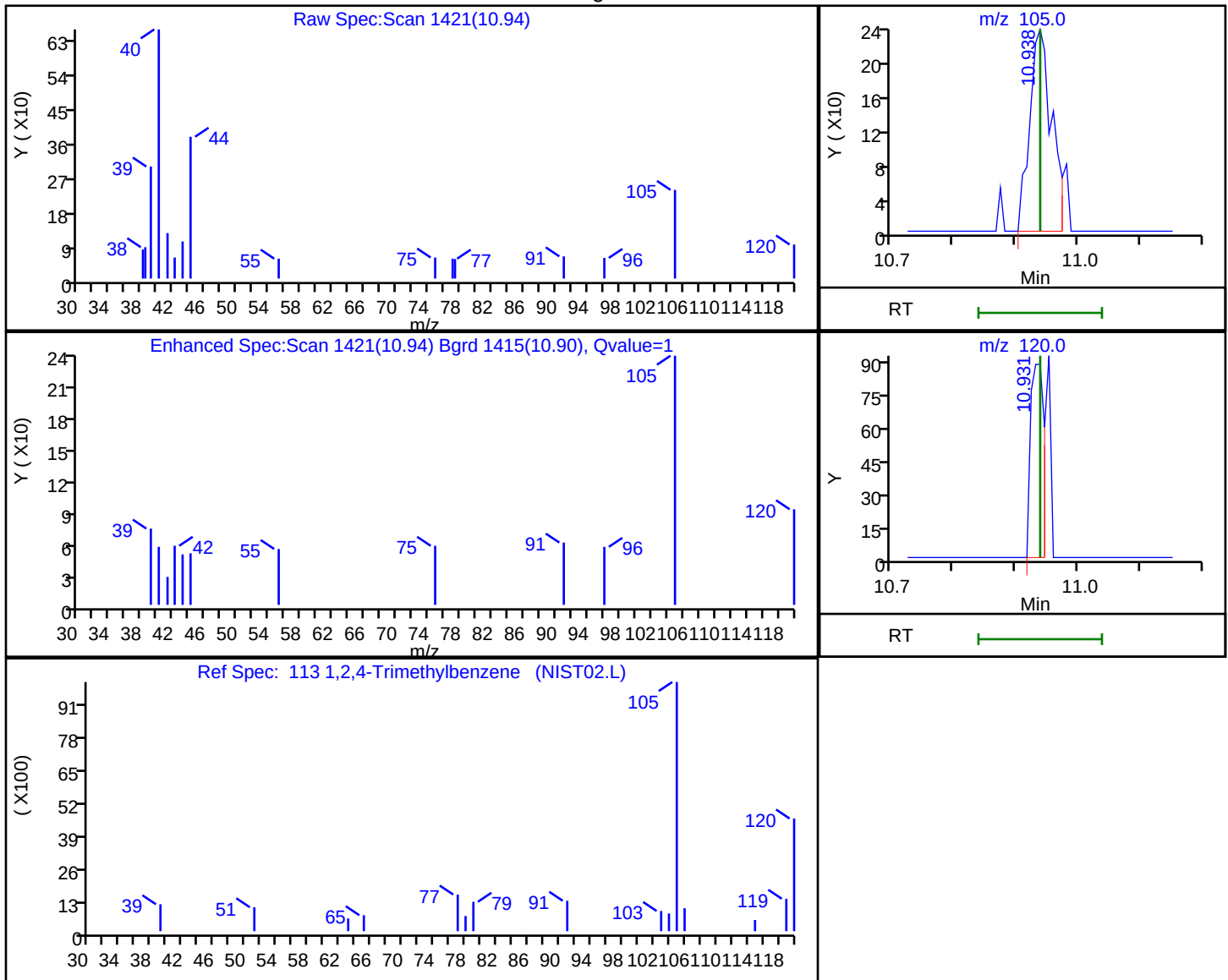
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

113 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
10.94	105.00	578	0.090533
10.93	120.00	135	

Reviewer: pakanatir, 24-May-2018 18:10:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

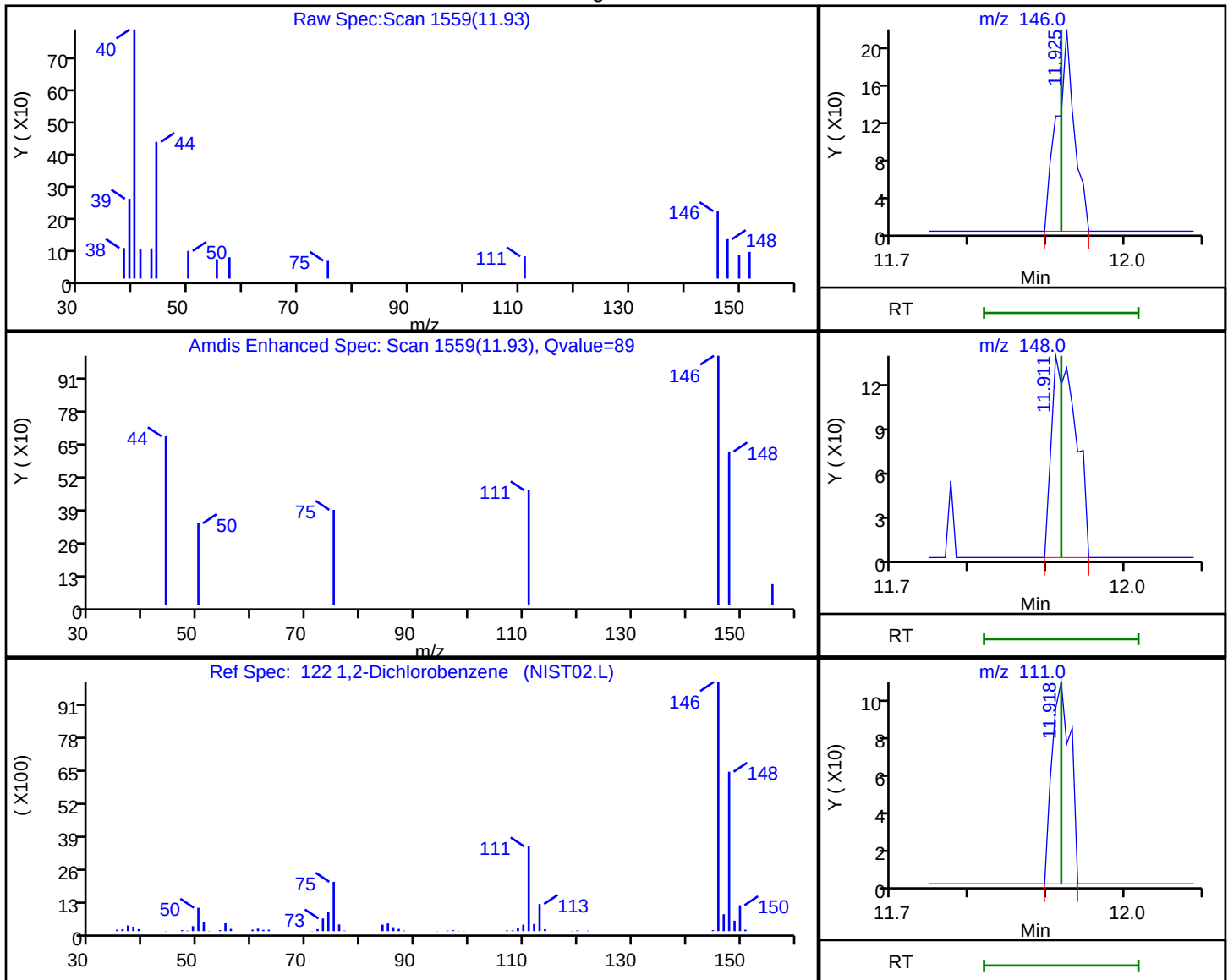
Column: DB-624 (0.18 mm)

Detector

MS SCAN

122 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
11.93	146.00	330	0.060152
11.91	148.00	288	
11.92	111.00	167	

Reviewer: pakanatir, 24-May-2018 18:10:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

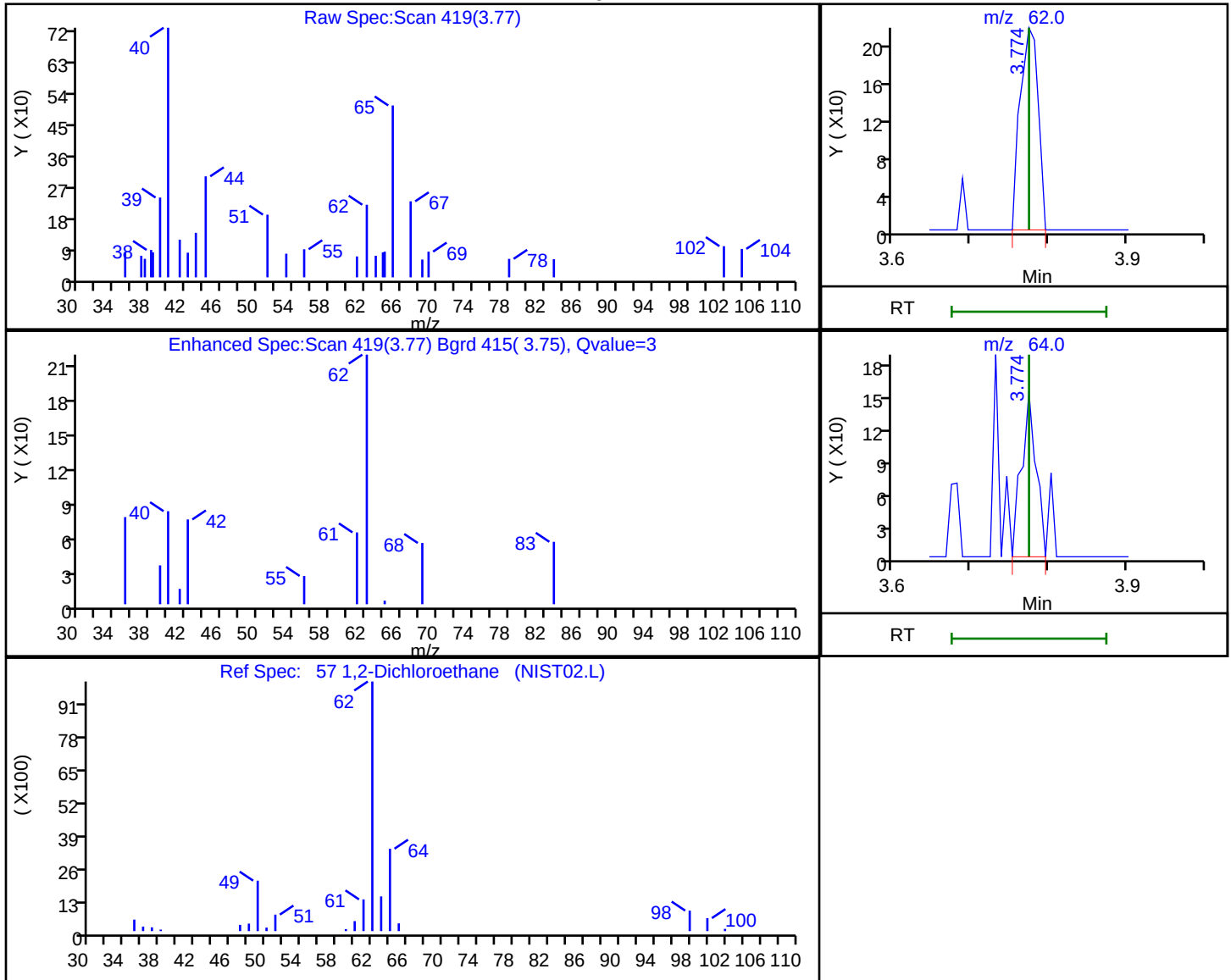
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
3.77	62.00	343	0.127024
3.77	64.00	194	

Reviewer: pakanatir, 24-May-2018 18:09:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

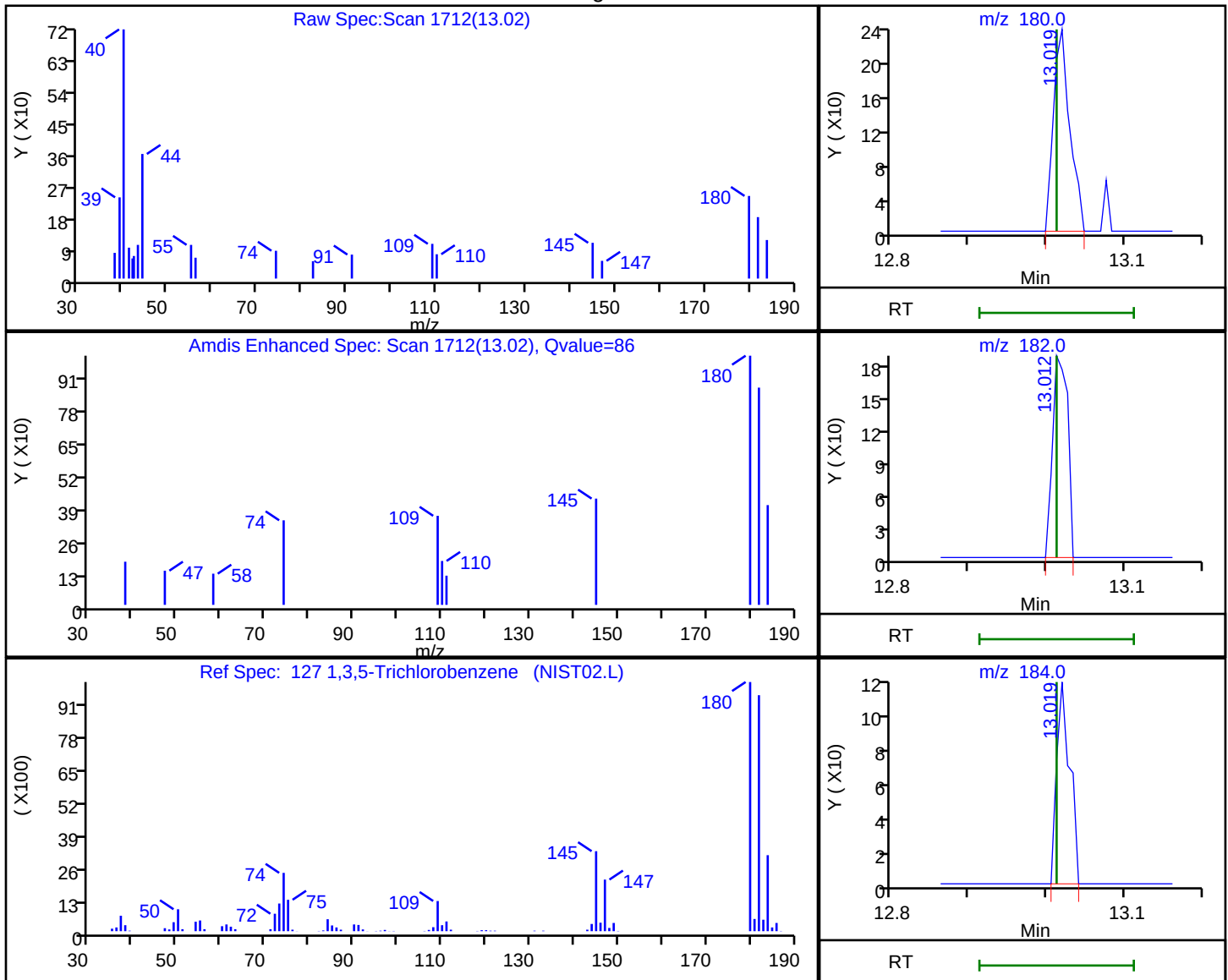
Column: DB-624 (0.18 mm)

Detector

MS SCAN

127 1,3,5-Trichlorobenzene, CAS: 108-70-3

Processing Results



RT	Mass	Response	Amount
13.02	180.00	350	0.129719
13.01	182.00	257	
13.02	184.00	131	

Reviewer: pakanatir, 24-May-2018 18:10:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

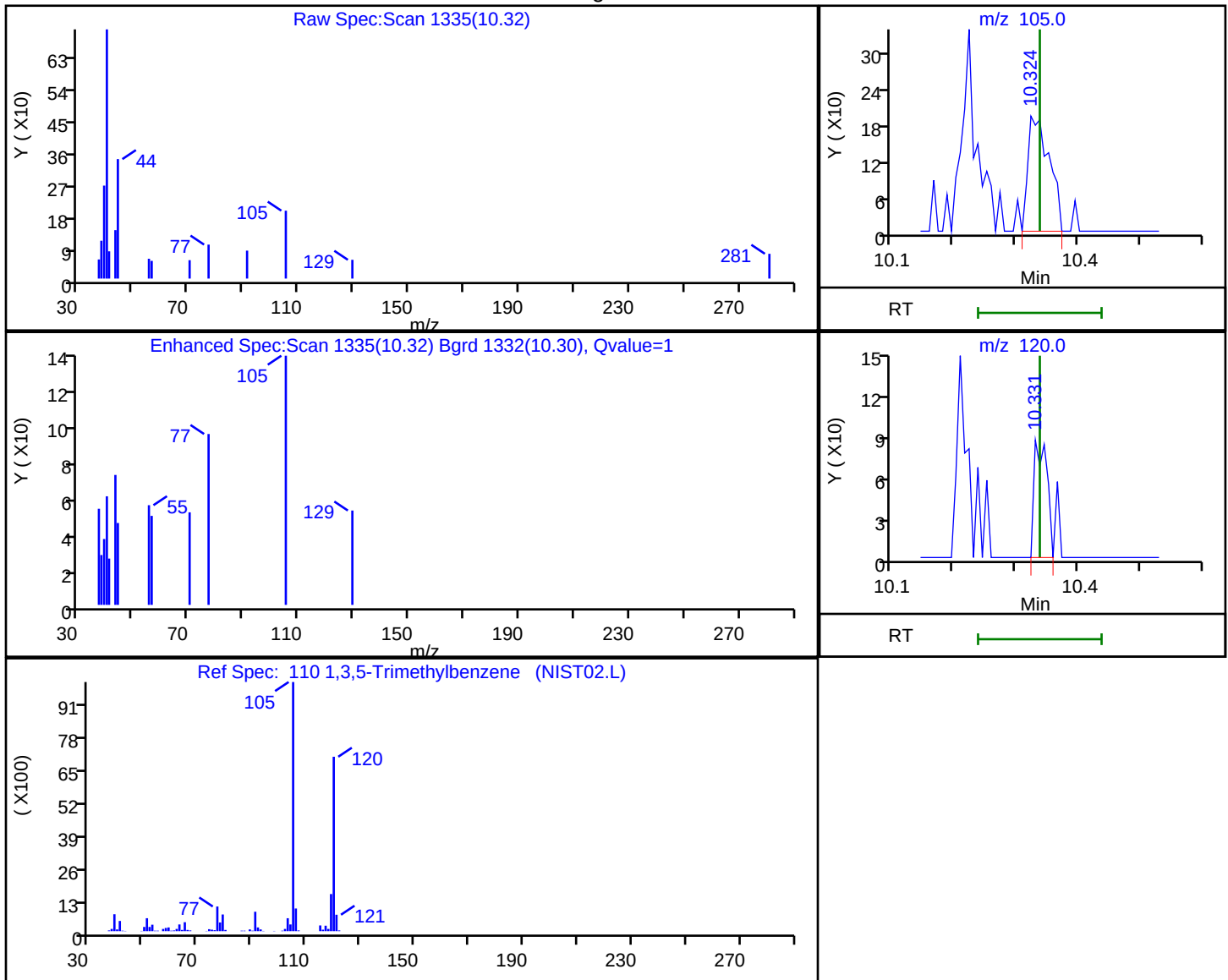
Column: DB-624 (0.18 mm)

Detector

MS SCAN

110 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
10.32	105.00	459	0.069866
10.33	120.00	118	

Reviewer: pakanatir, 24-May-2018 18:10:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

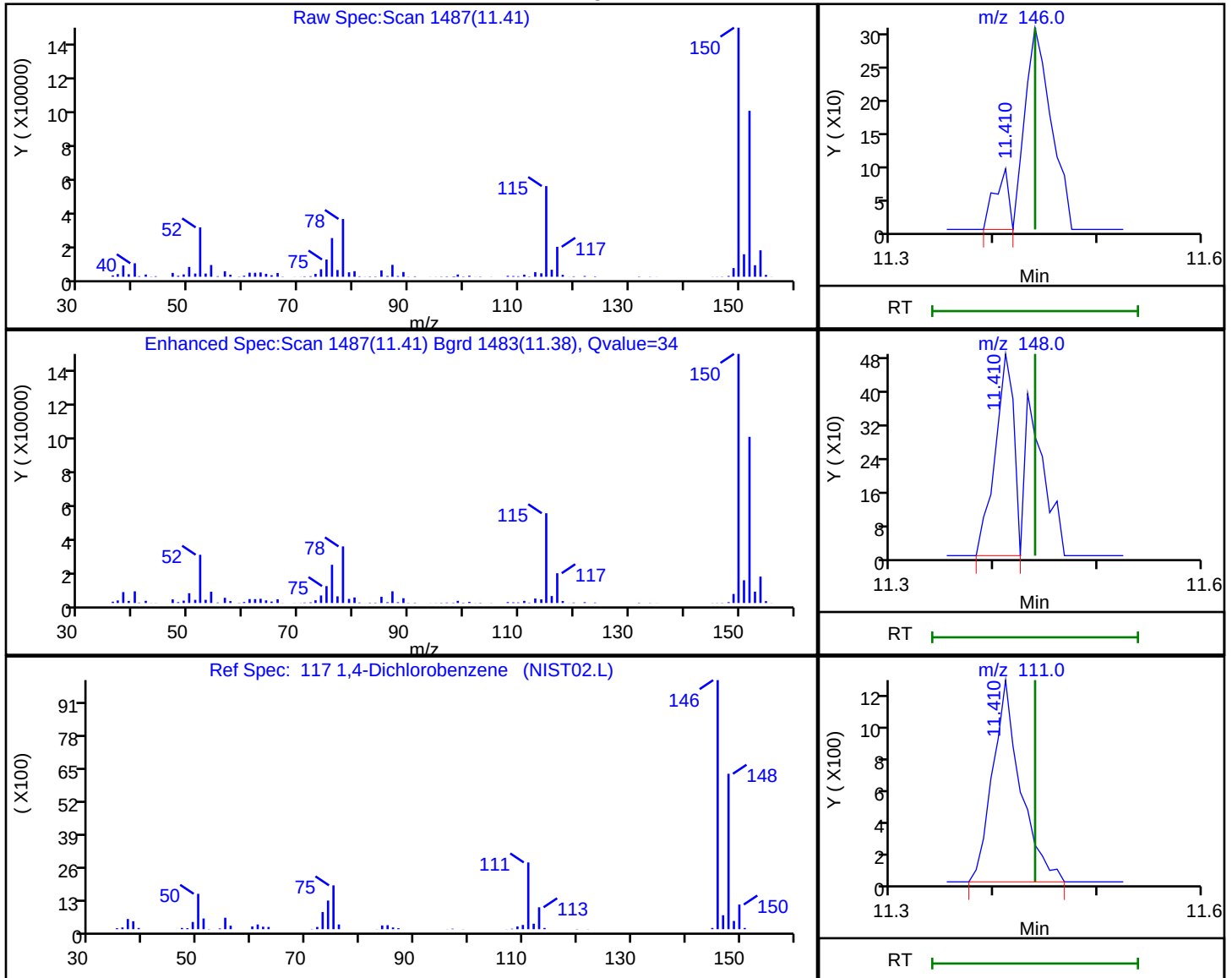
Column: DB-624 (0.18 mm)

Detector

MS SCAN

117 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
11.41	146.00	87	0.017202
11.41	148.00	611	
11.41	111.00	2402	

Reviewer: pakanatir, 24-May-2018 18:10:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

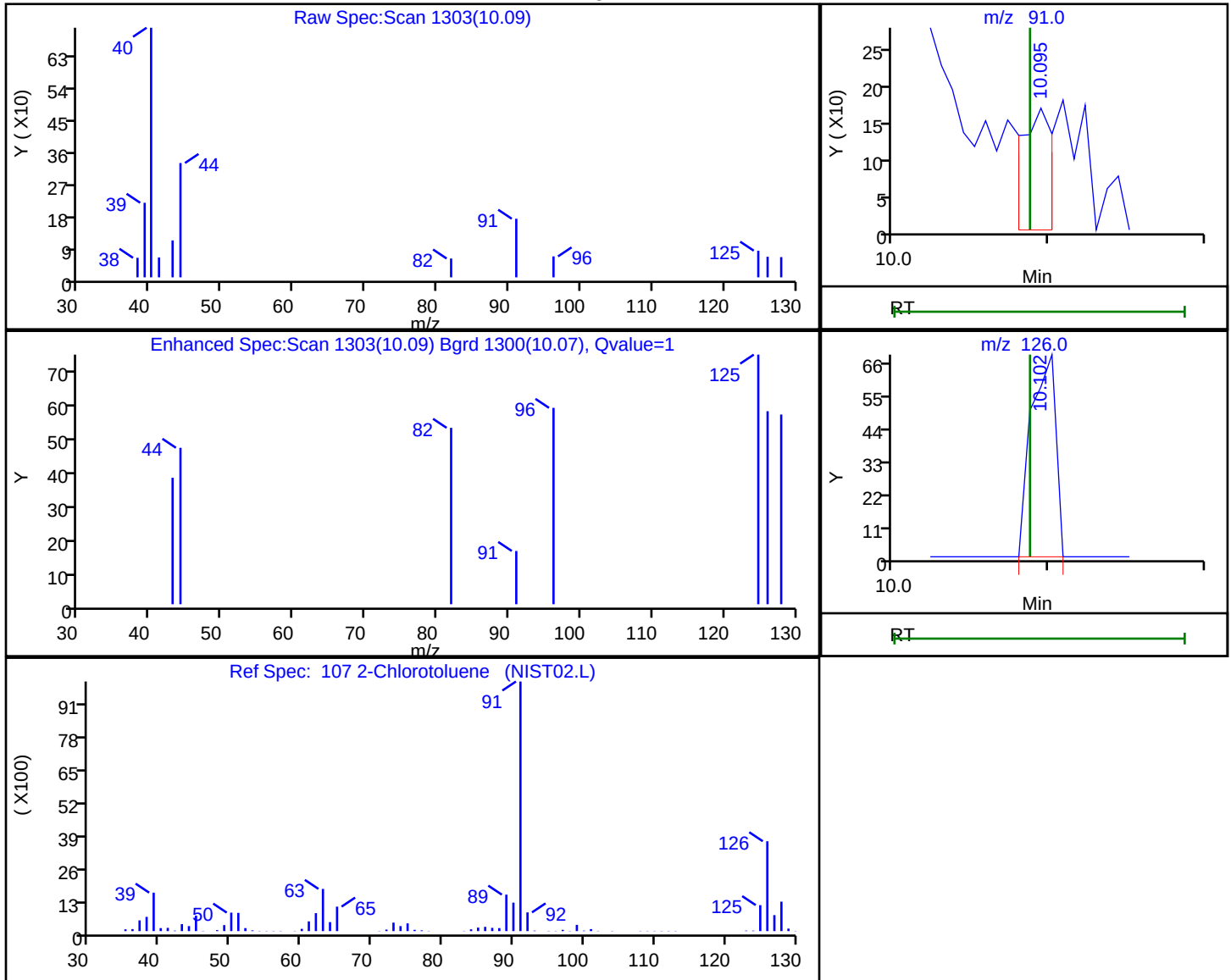
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

107 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
10.09	91.00	237	0.033812
10.10	126.00	76	

Reviewer: pakanatir, 24-May-2018 18:10:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

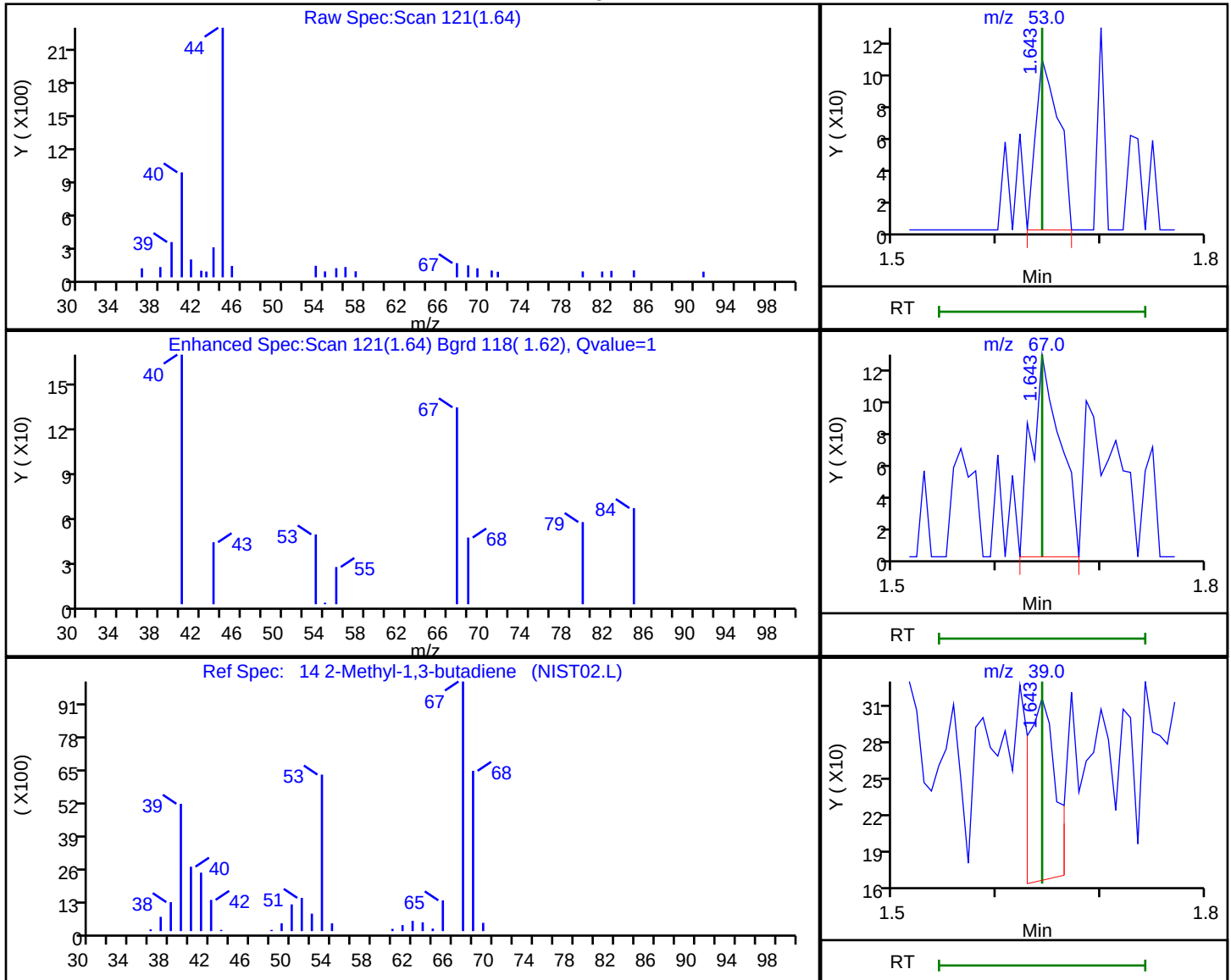
Column: DB-624 (0.18 mm)

Detector

MS SCAN

14 2-Methyl-1,3-butadiene, CAS: 78-79-5

Processing Results



RT	Mass	Response	Amount
1.64	53.00	160	0.102975
1.64	67.00	244	
1.64	39.00	281	

Reviewer: pakanatir, 24-May-2018 18:06:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

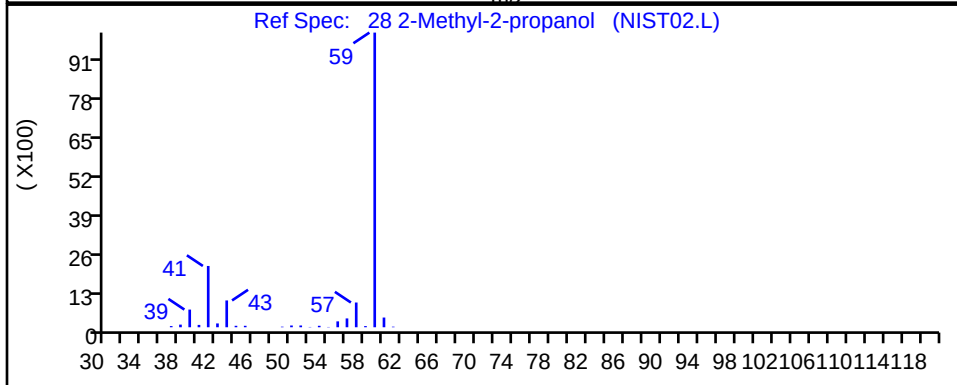
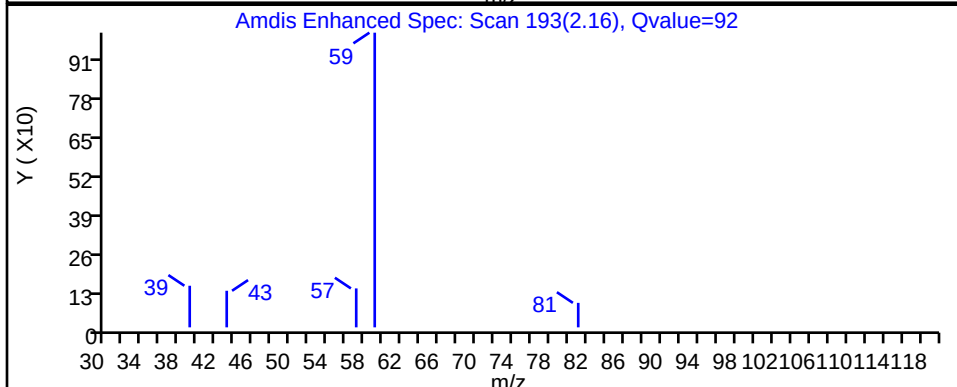
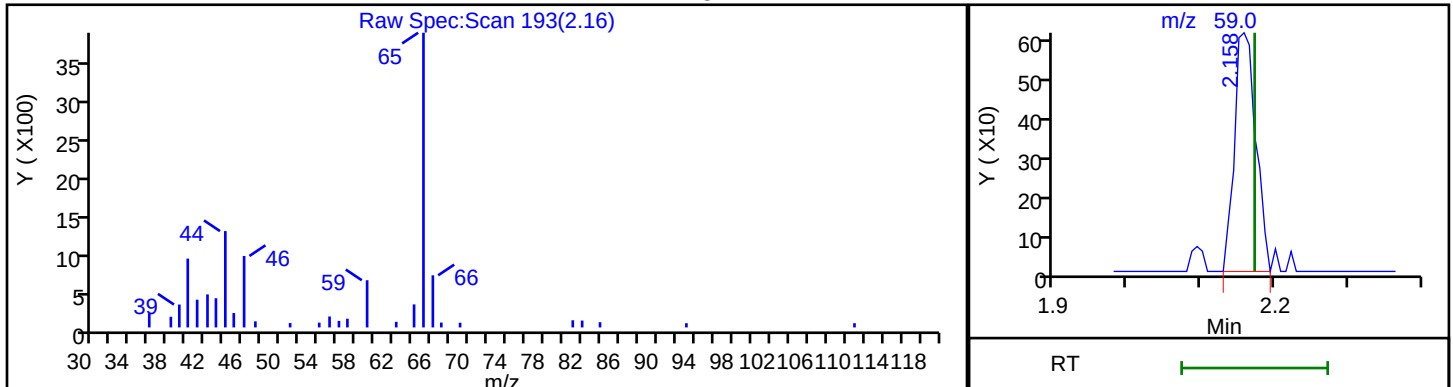
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
2.16	59.00	1245	4.195297

Reviewer: pakanatir, 24-May-2018 18:06:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

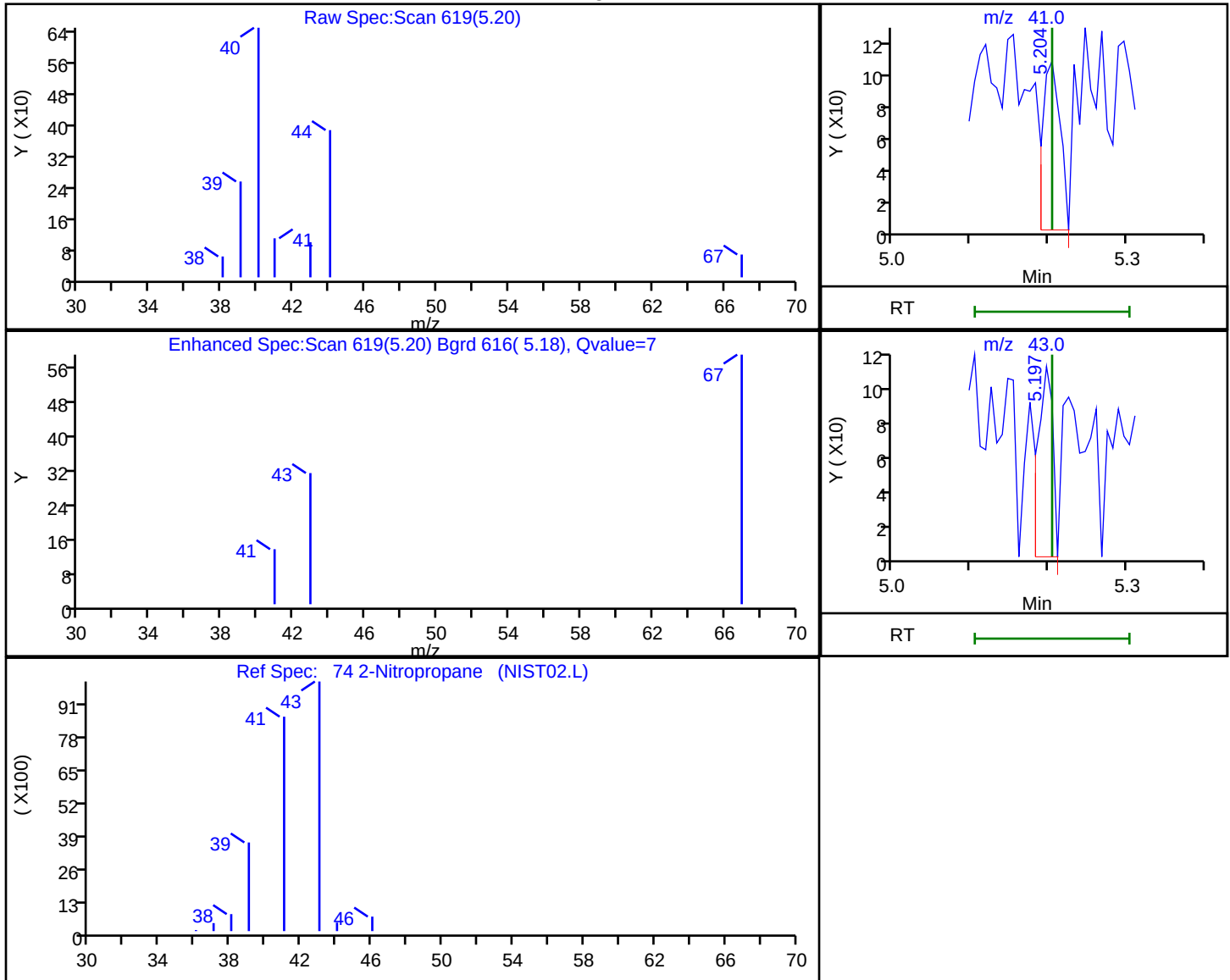
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

74 2-Nitropropane, CAS: 79-46-9

Processing Results



RT	Mass	Response	Amount
5.20	41.00	158	0.287293
5.20	43.00	148	

Reviewer: pakanatir, 24-May-2018 18:09:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

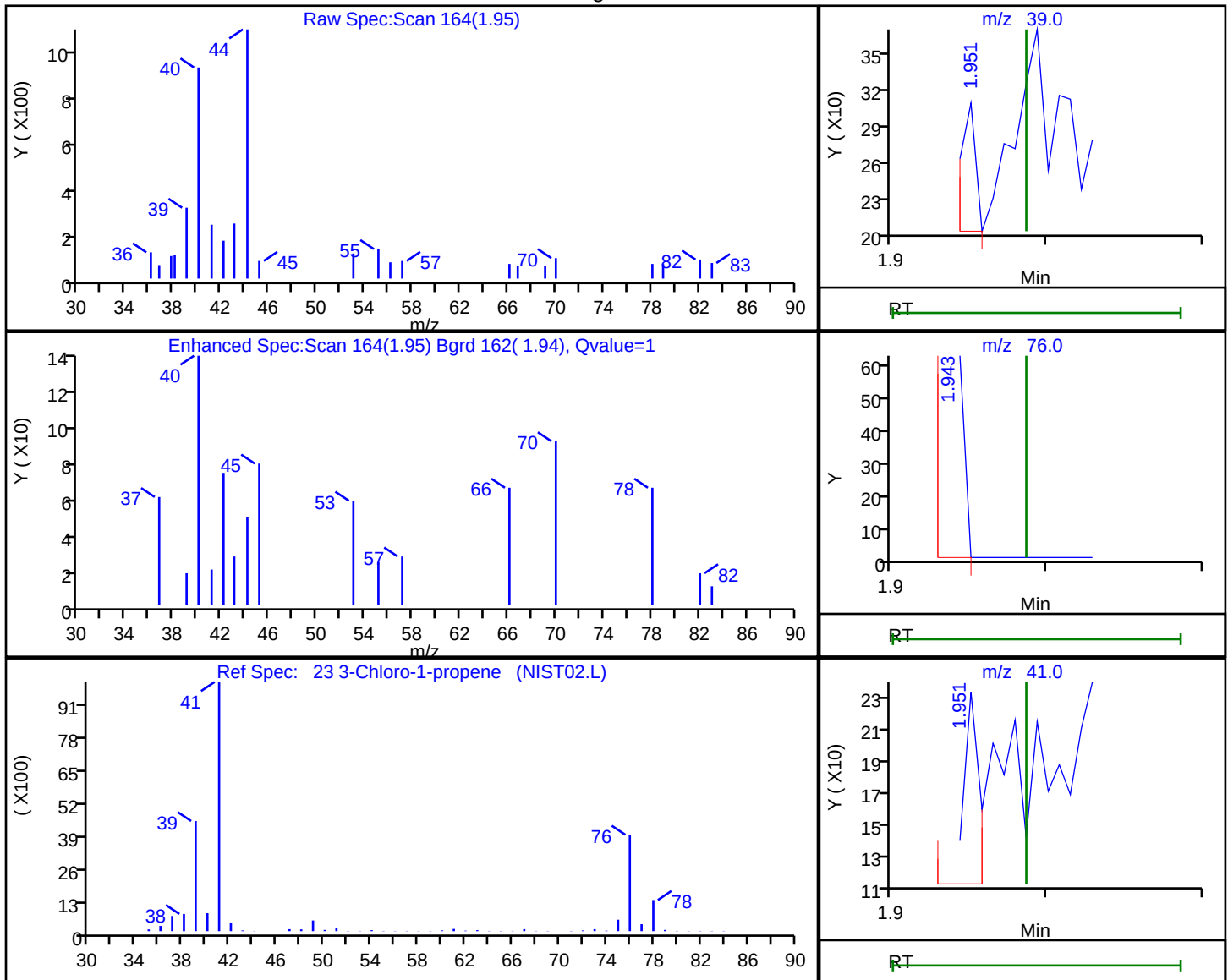
Column: DB-624 (0.18 mm)

Detector

MS SCAN

23 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
1.95	39.00	68	0.028348
1.94	76.00	50	
1.95	41.00	122	

Reviewer: pakanatir, 24-May-2018 18:06:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

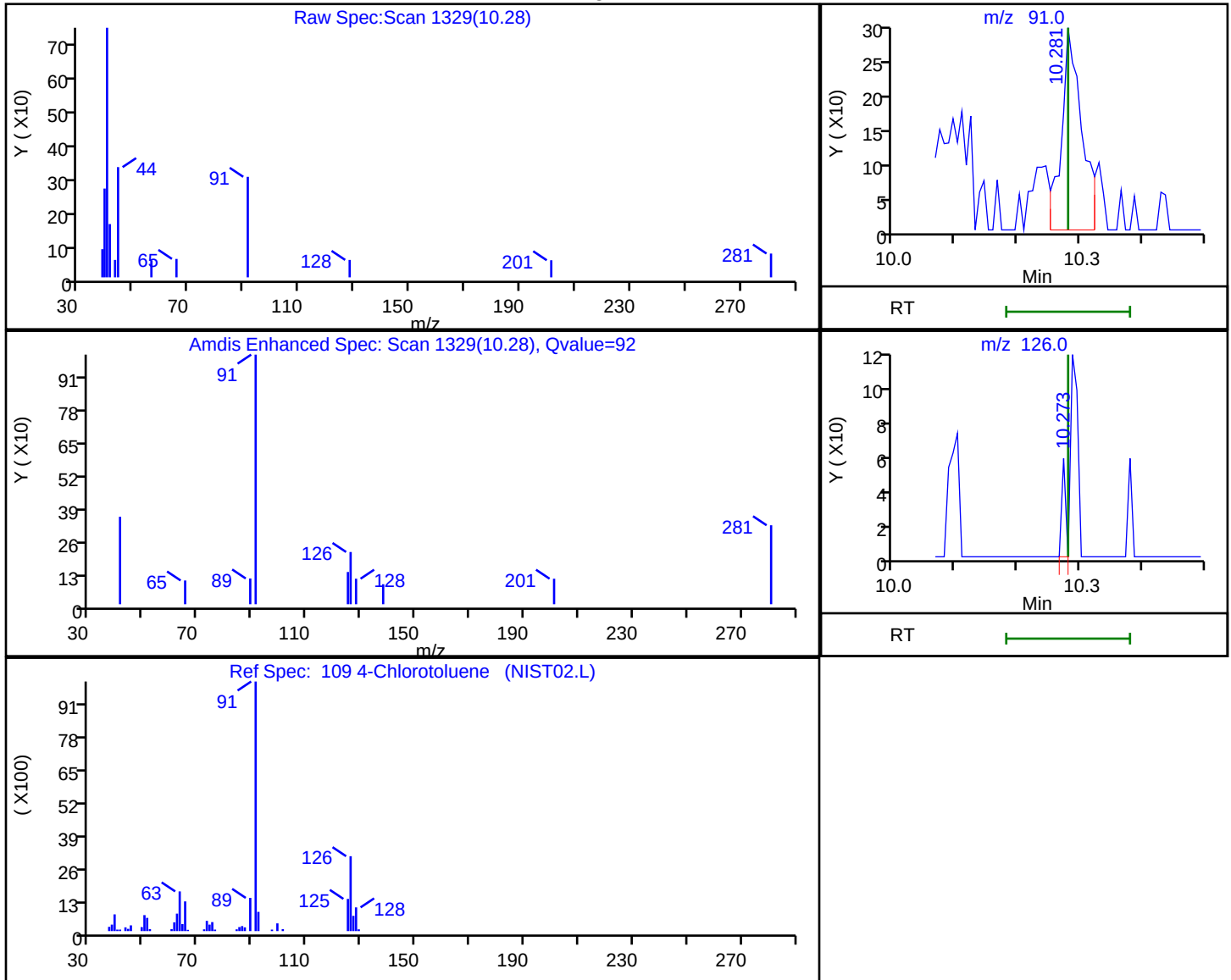
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

109 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
10.28	91.00	686	0.099841
10.27	126.00	24	

Reviewer: pakanatir, 24-May-2018 18:10:15

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

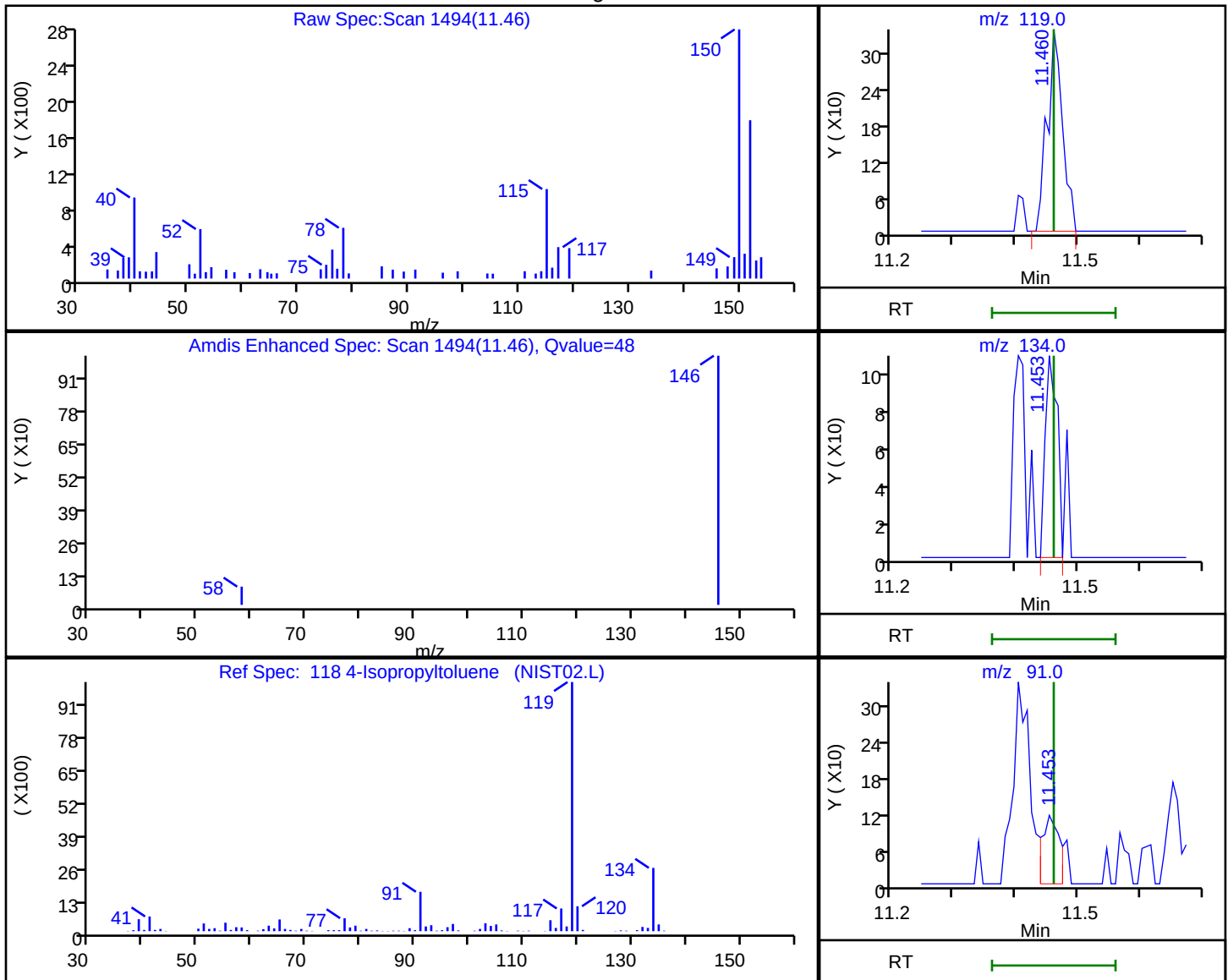
Column: DB-624 (0.18 mm)

Detector

MS SCAN

118 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
11.46	119.00	571	0.068129
11.45	134.00	147	
11.45	91.00	222	

Reviewer: pakanatir, 24-May-2018 18:10:26

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

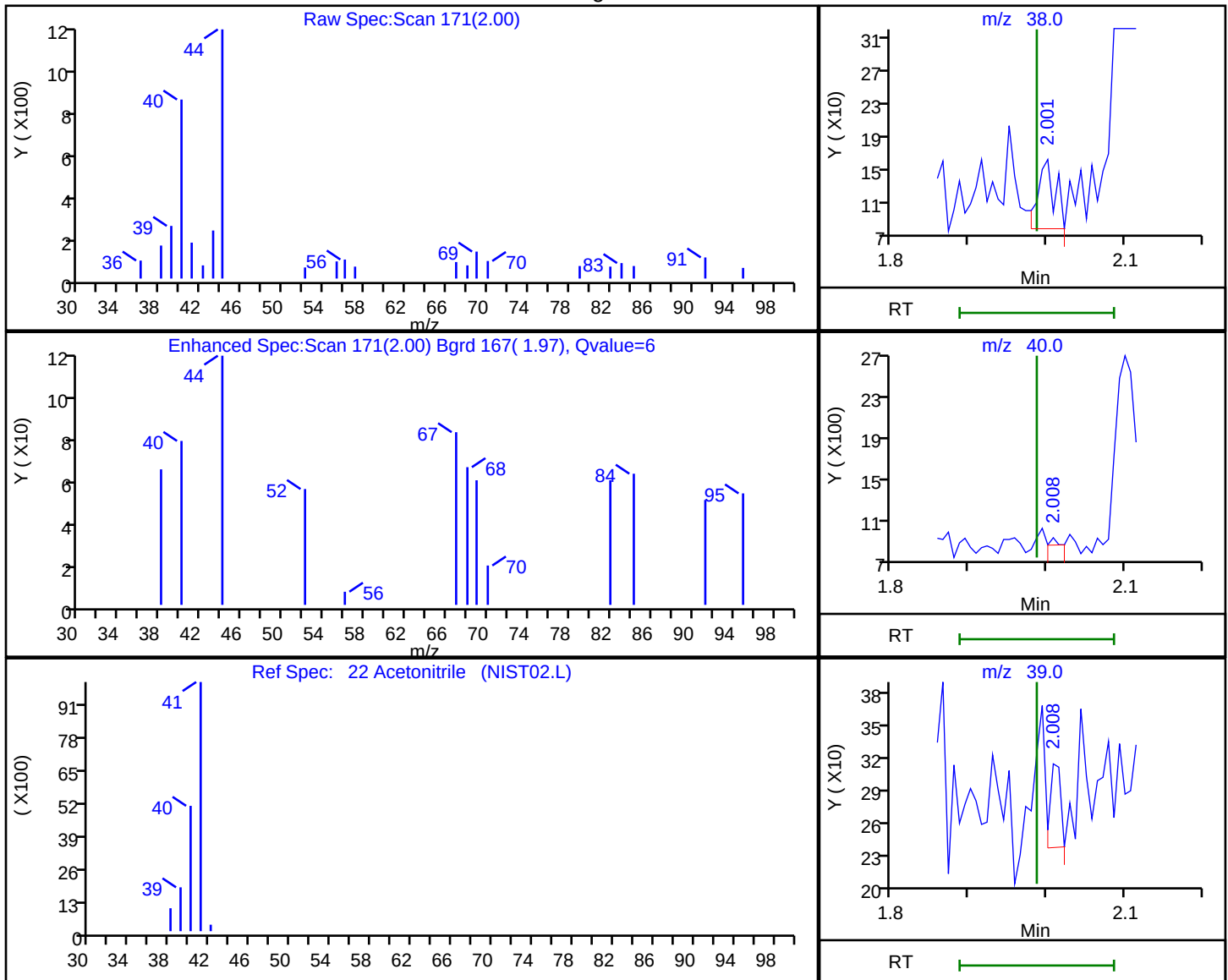
Column: DB-624 (0.18 mm)

Detector

MS SCAN

22 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.00	38.00	127	1.667646
2.01	40.00	33	
2.01	39.00	69	
1.99	41.00	72	

Reviewer: pakanatir, 24-May-2018 18:06:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

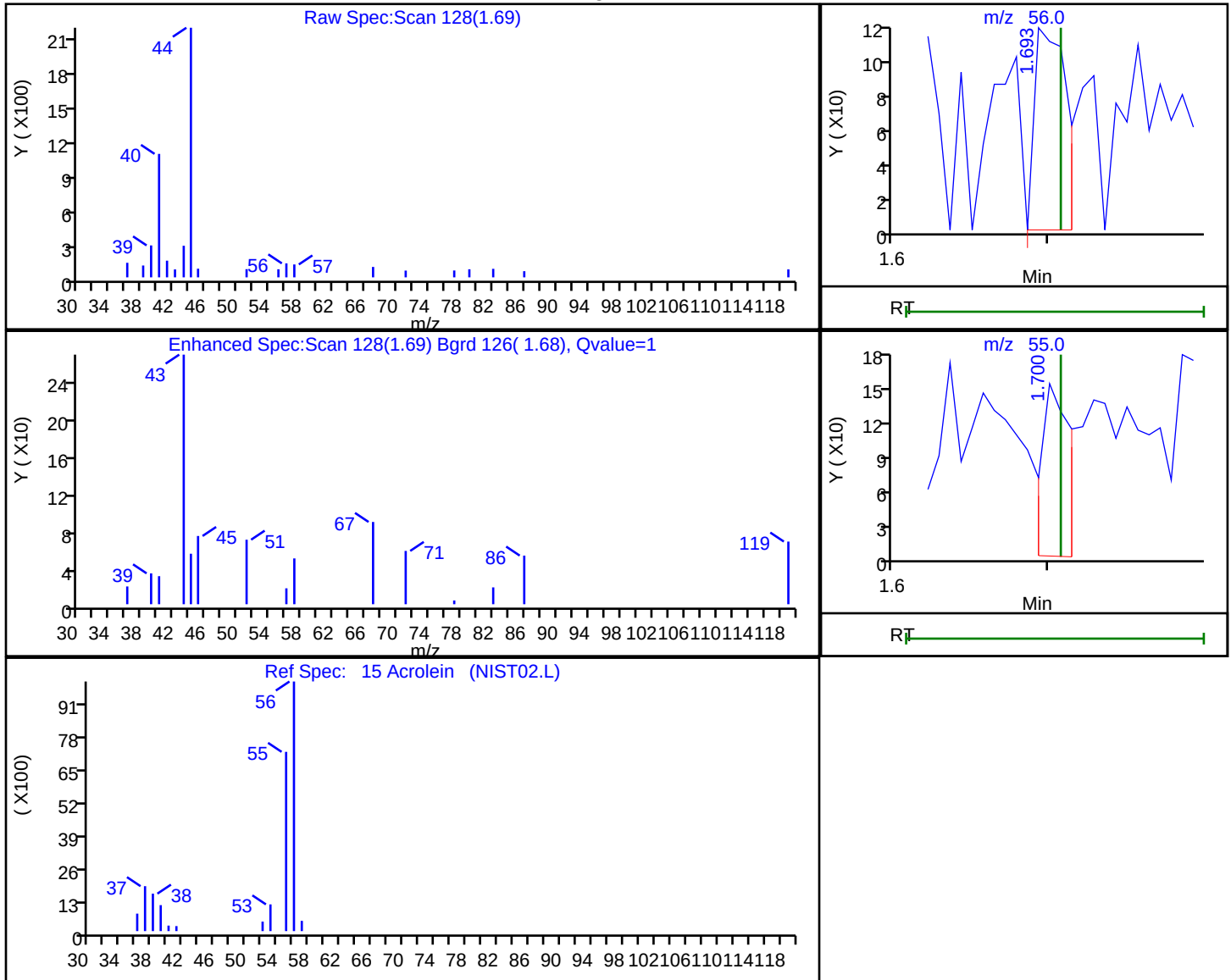
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

15 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
1.69	56.00	170	0.824750
1.70	55.00	193	

Reviewer: pakanatir, 24-May-2018 18:06:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

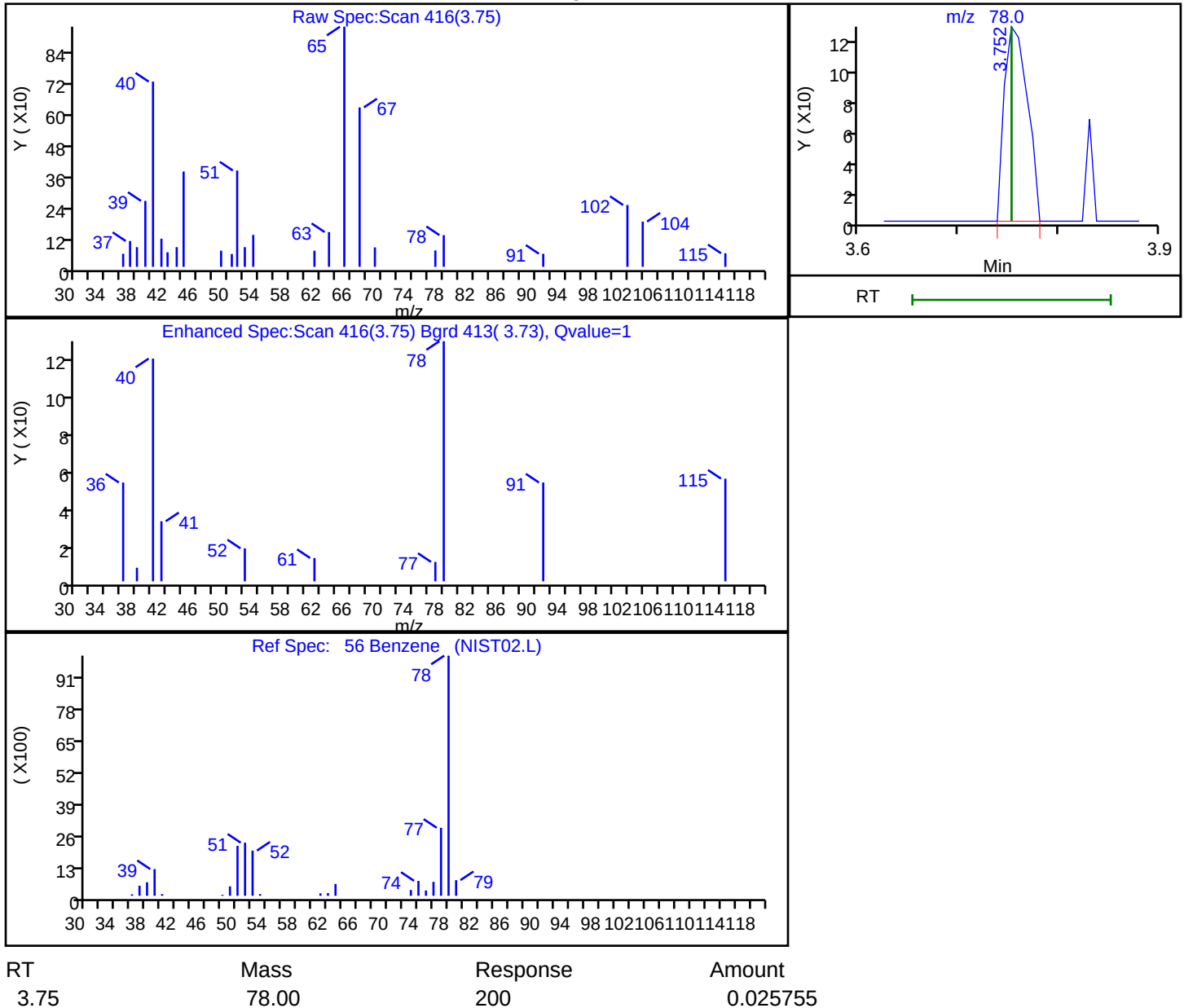
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

56 Benzene, CAS: 71-43-2

Processing Results



Reviewer: pakanatir, 24-May-2018 18:09:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

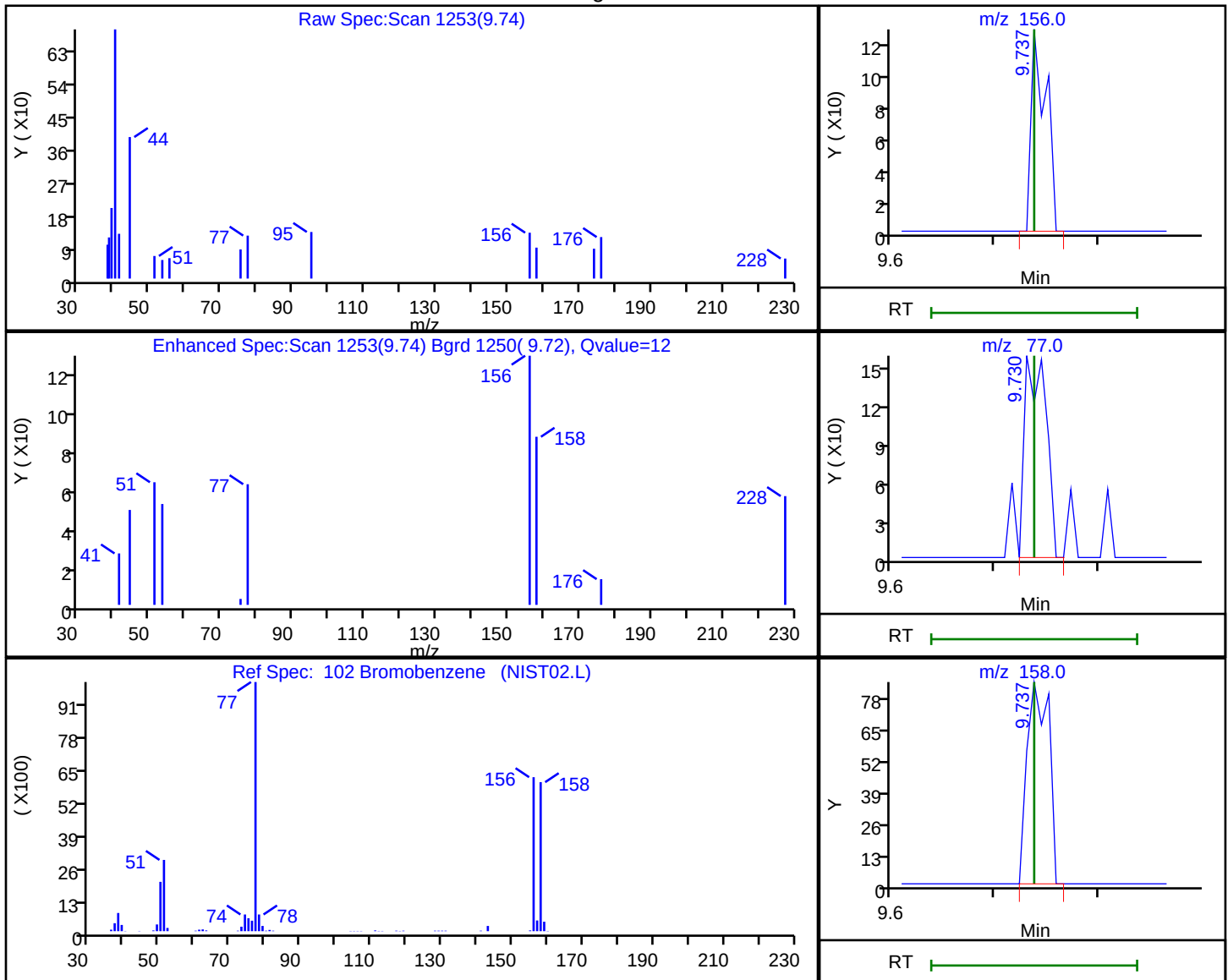
Column: DB-624 (0.18 mm)

Detector

MS SCAN

102 Bromobenzene, CAS: 108-86-1

Processing Results



RT	Mass	Response	Amount
9.74	156.00	127	0.045132
9.73	77.00	220	
9.74	158.00	124	

Reviewer: pakanatir, 24-May-2018 18:10:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

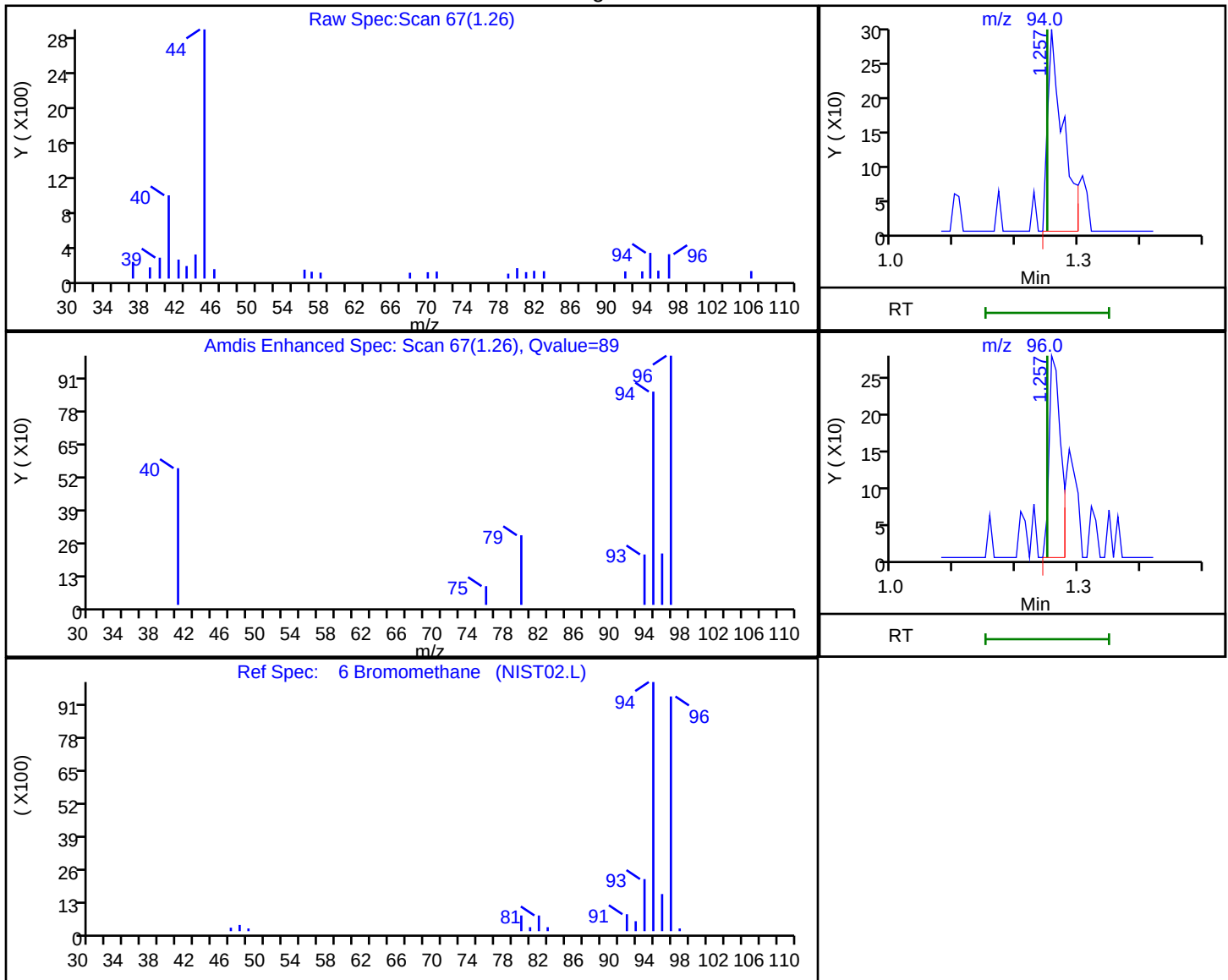
Column: DB-624 (0.18 mm)

Detector

MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.26	94.00	504	0.483866
1.26	96.00	361	

Reviewer: pakanatir, 24-May-2018 18:06:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

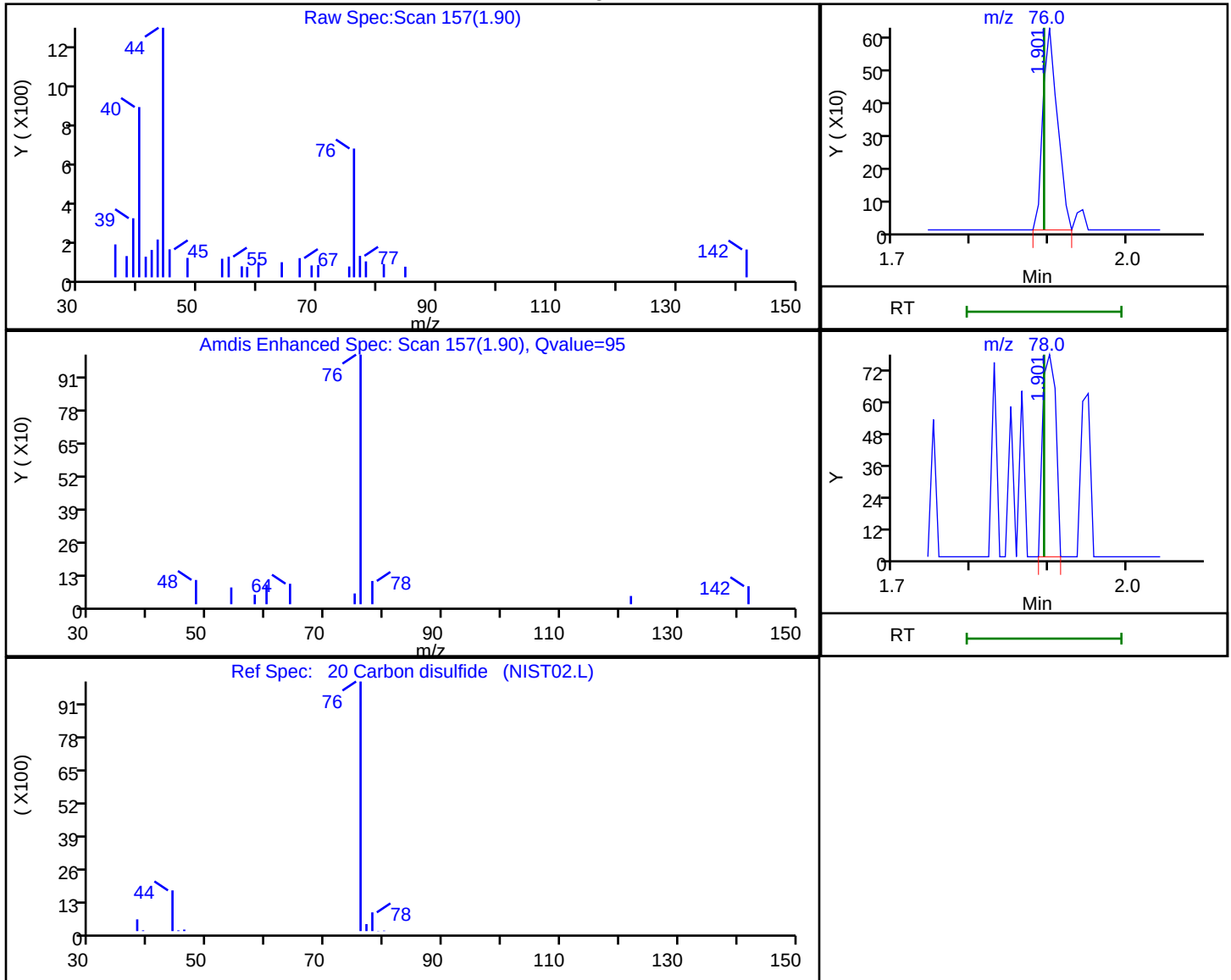
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

20 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
1.90	76.00	822	0.144035
1.90	78.00	91	

Reviewer: pakanatir, 24-May-2018 18:06:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

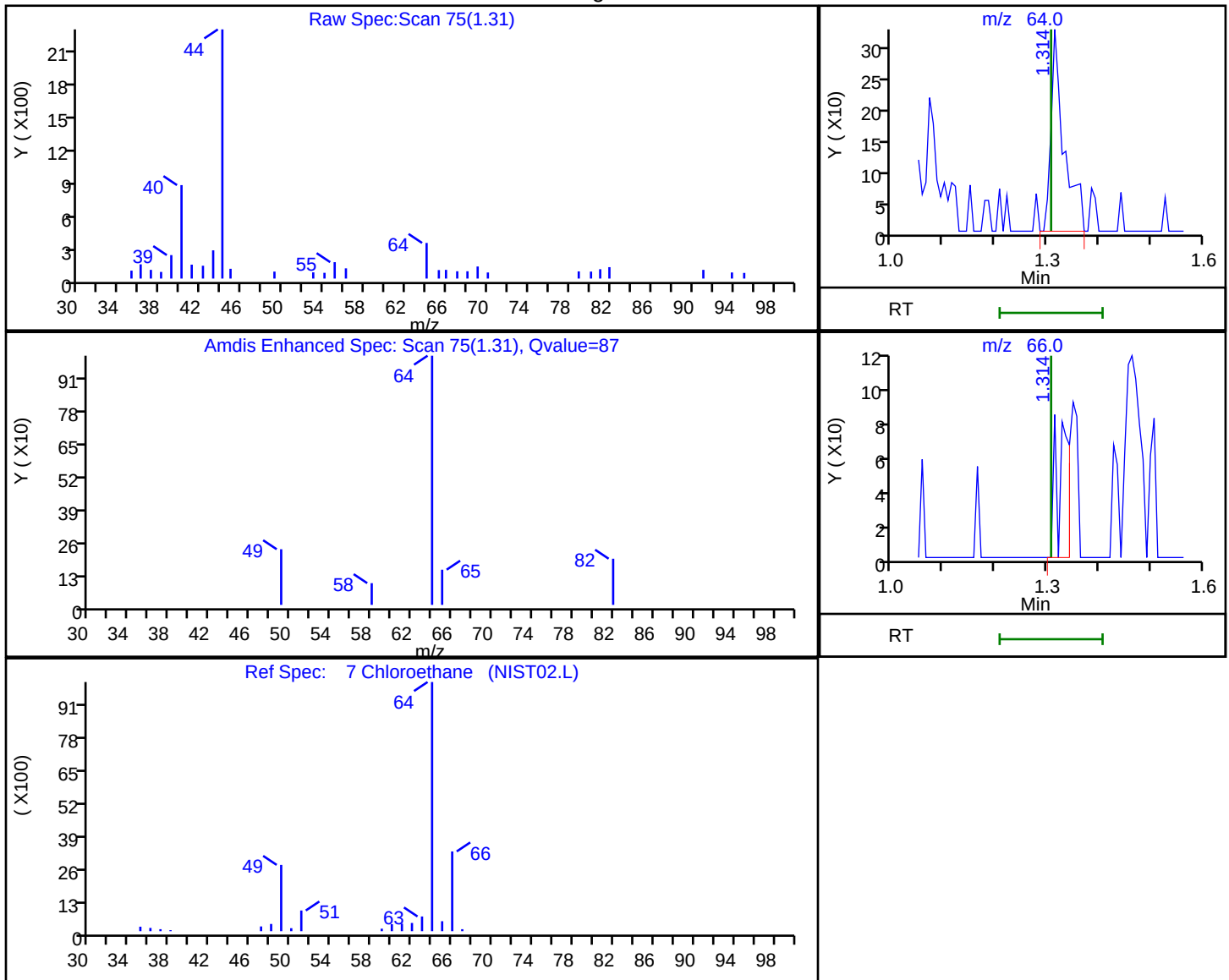
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.31	64.00	573	0.455175
1.31	66.00	123	

Reviewer: pakanatir, 24-May-2018 18:06:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

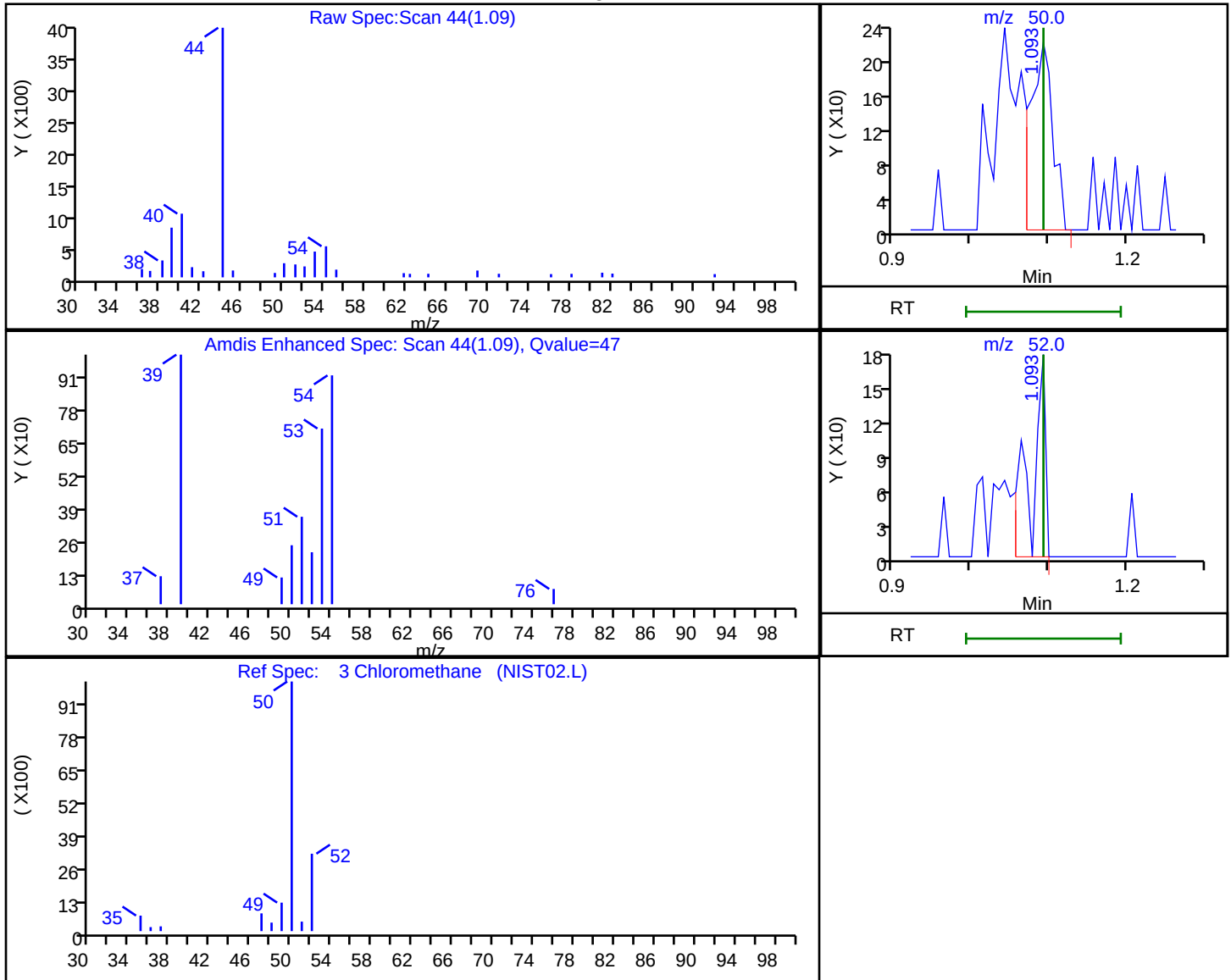
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

3 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.09	50.00	443	0.177084
1.09	52.00	217	

Reviewer: pakanatir, 24-May-2018 18:06:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

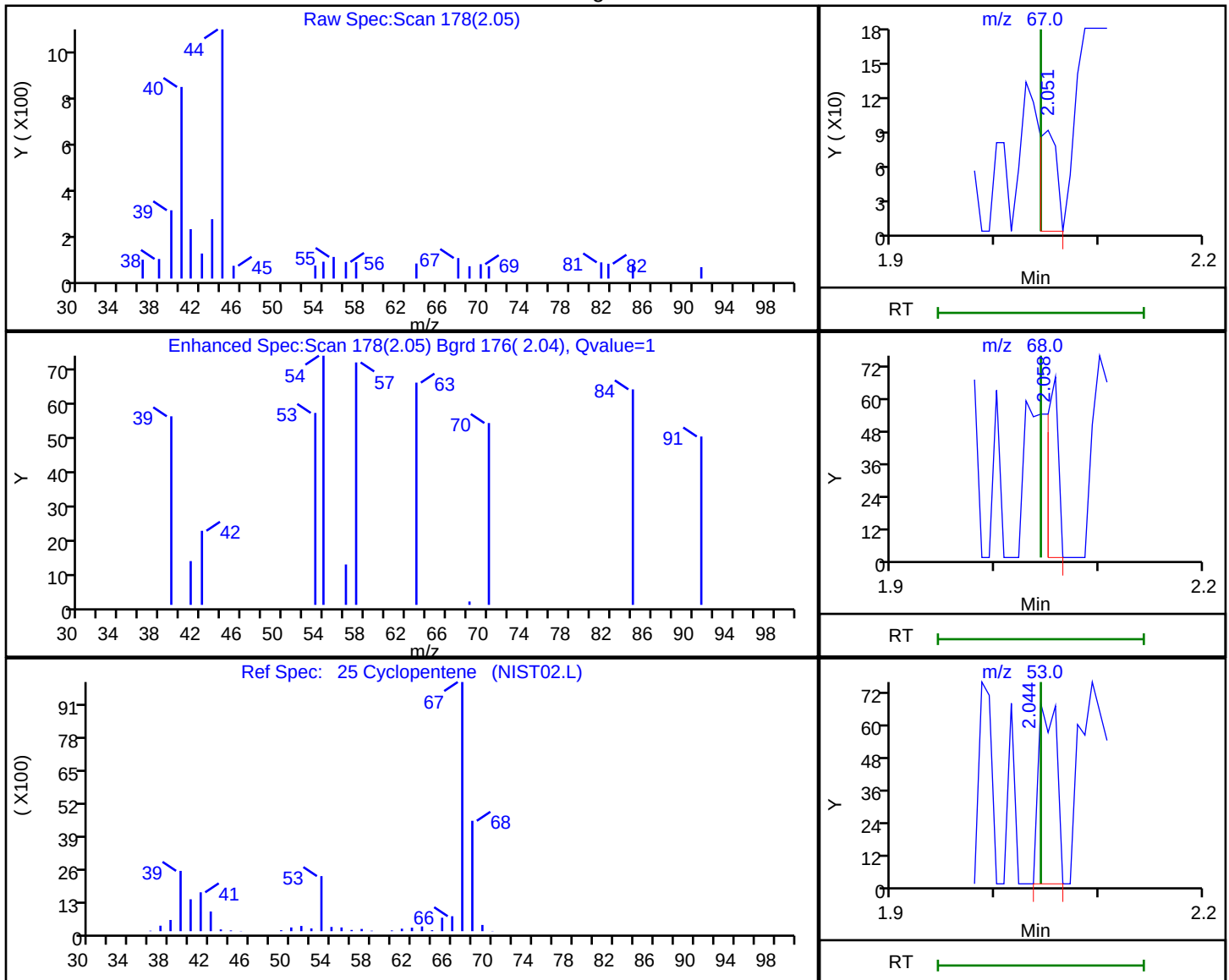
Column: DB-624 (0.18 mm)

Detector

MS SCAN

25 Cyclopentene, CAS: 142-29-0

Processing Results



RT	Mass	Response	Amount
2.05	67.00	107	0.025961
2.06	68.00	52	
2.04	53.00	82	

Reviewer: pakanatir, 24-May-2018 18:06:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

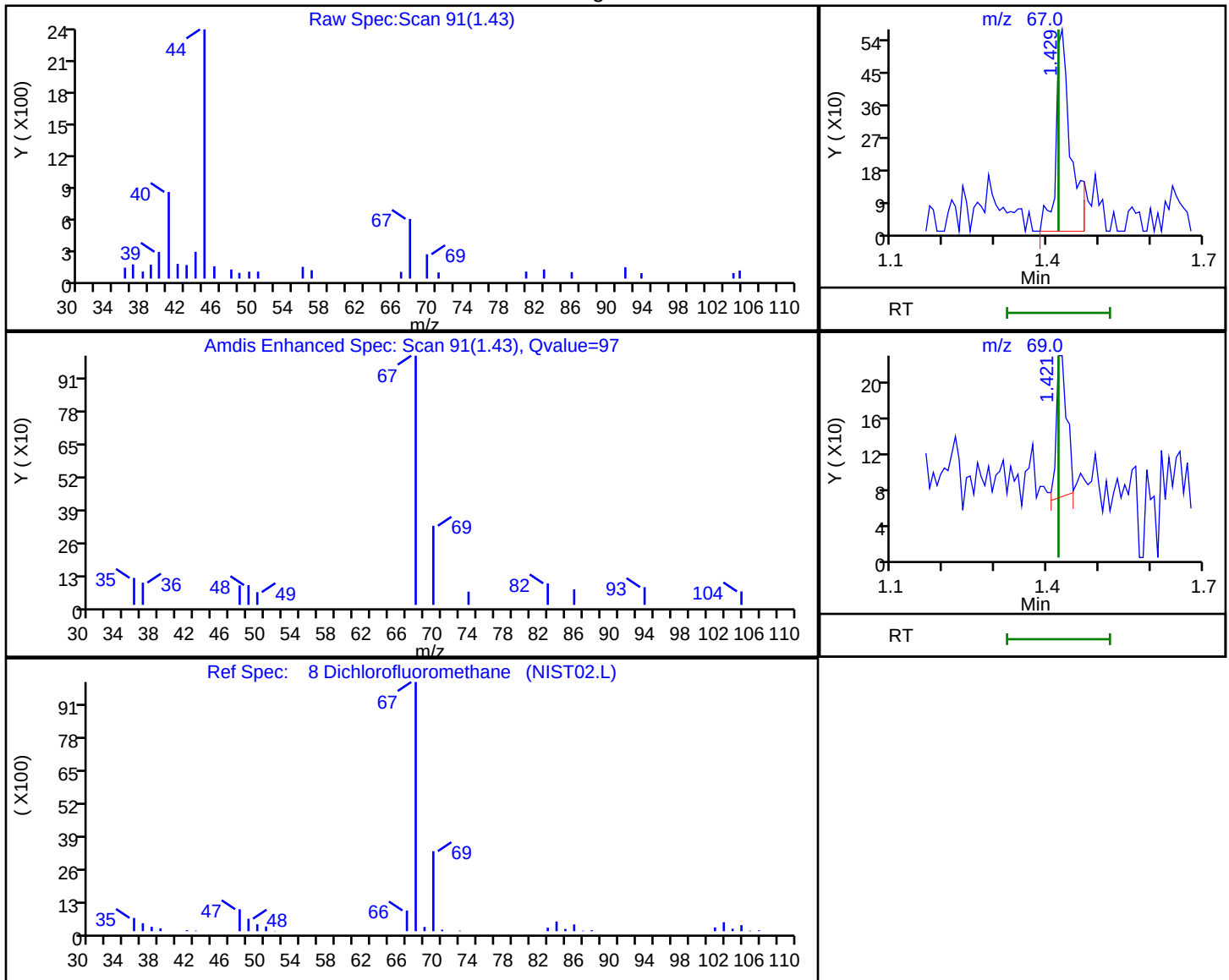
Column: DB-624 (0.18 mm)

Detector

MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
1.43	67.00	1116	0.279132
1.42	69.00	230	

Reviewer: pakanatir, 24-May-2018 18:06:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

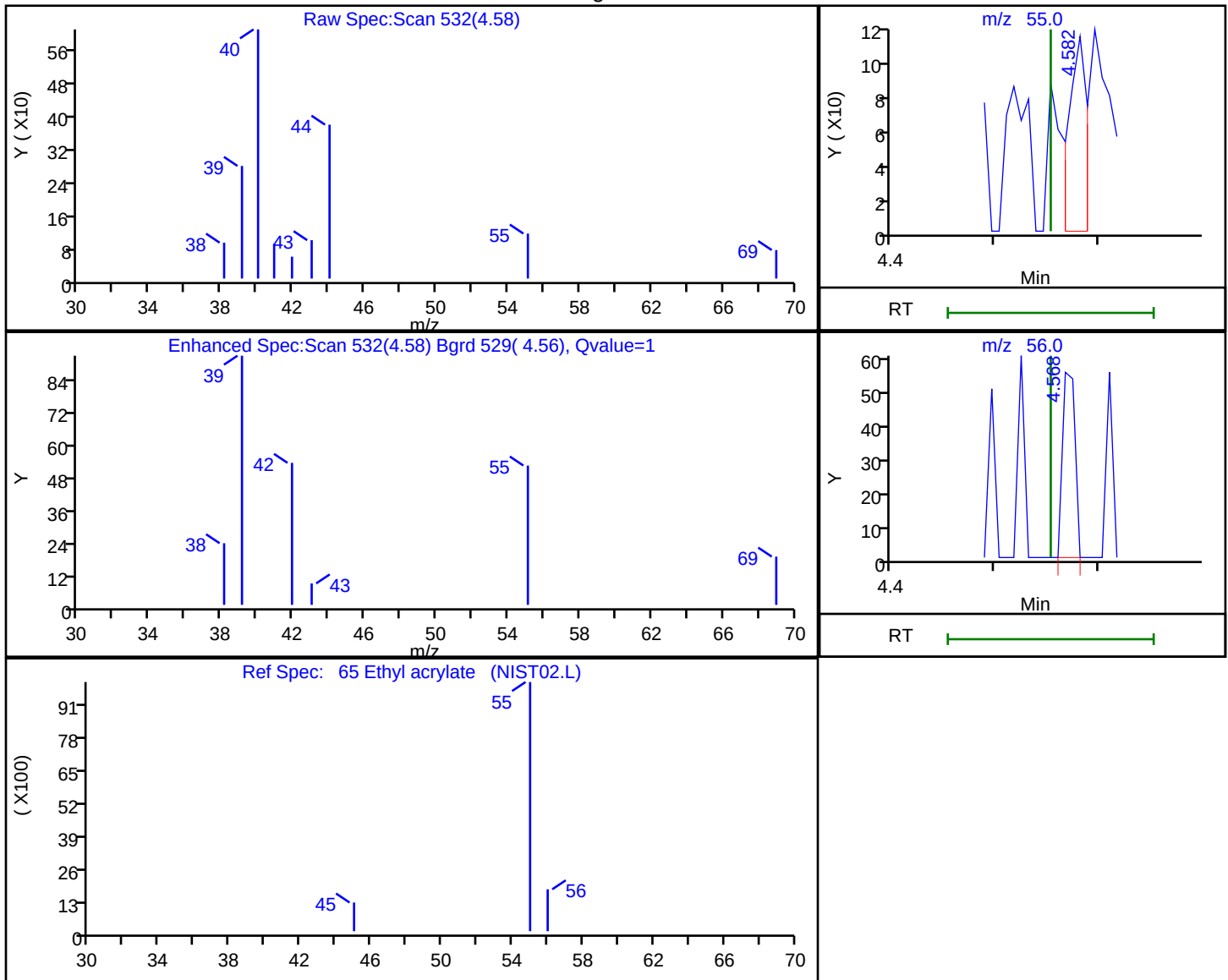
Column: DB-624 (0.18 mm)

Detector

MS SCAN

65 Ethyl acrylate, CAS: 140-88-5

Processing Results



RT	Mass	Response	Amount
4.58	55.00	133	0.057909
4.57	56.00	47	

Reviewer: pakanatir, 24-May-2018 18:09:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

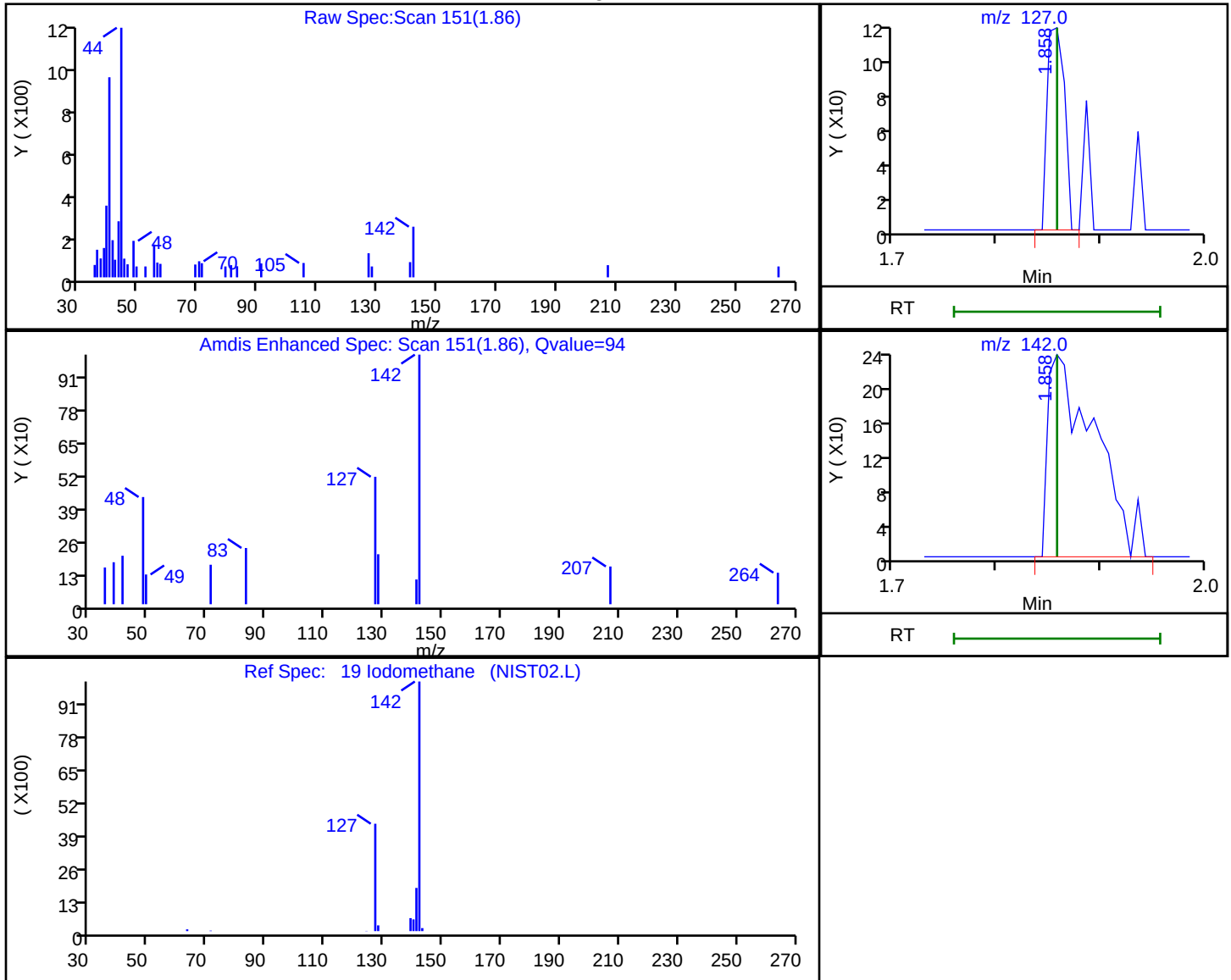
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

19 Iodomethane, CAS: 74-88-4

Processing Results



RT	Mass	Response	Amount
1.86	127.00	129	0.083744
1.86	142.00	740	

Reviewer: pakanatir, 24-May-2018 18:06:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

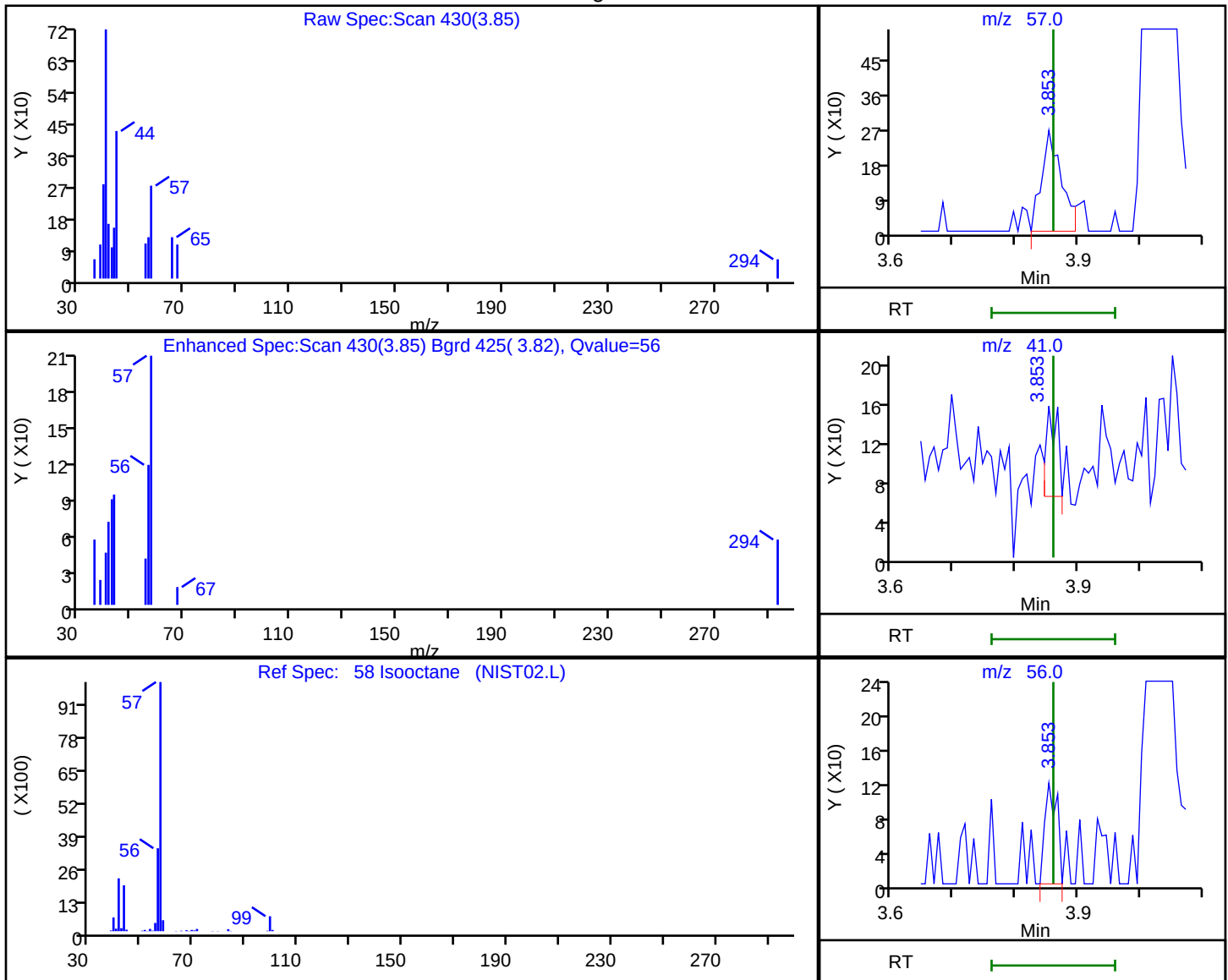
Column: DB-624 (0.18 mm)

Detector

MS SCAN

58 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
3.85	57.00	595	0.142150
3.85	41.00	116	
3.85	56.00	160	

Reviewer: pakanatir, 24-May-2018 18:09:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

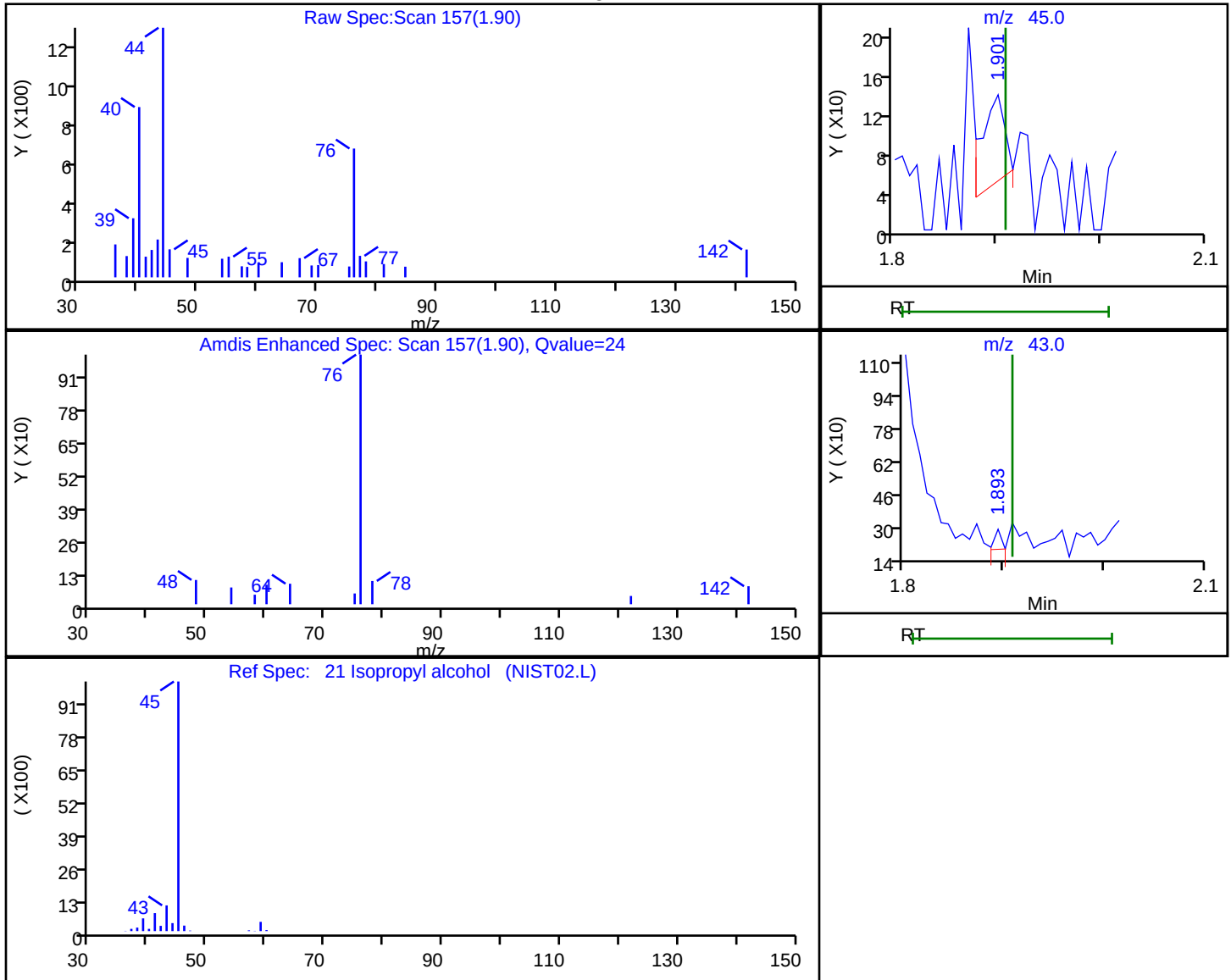
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

21 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
1.90	45.00	139	0.898294
1.89	43.00	47	

Reviewer: pakanatir, 24-May-2018 18:06:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

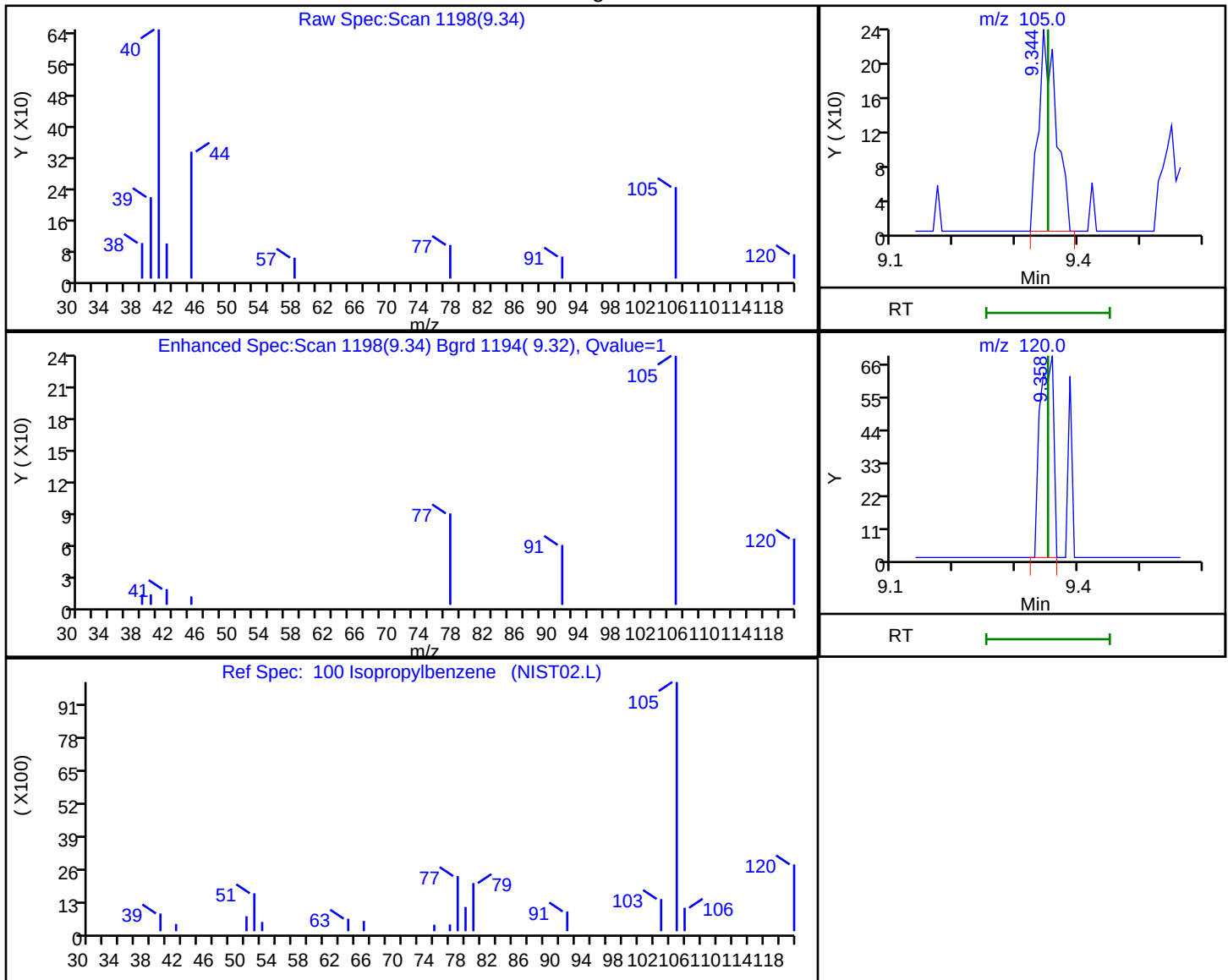
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

100 Isopropylbenzene, CAS: 98-82-8

Processing Results



RT	Mass	Response	Amount
9.34	105.00	467	0.043805
9.36	120.00	104	

Reviewer: pakanatir, 24-May-2018 18:10:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#:

3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

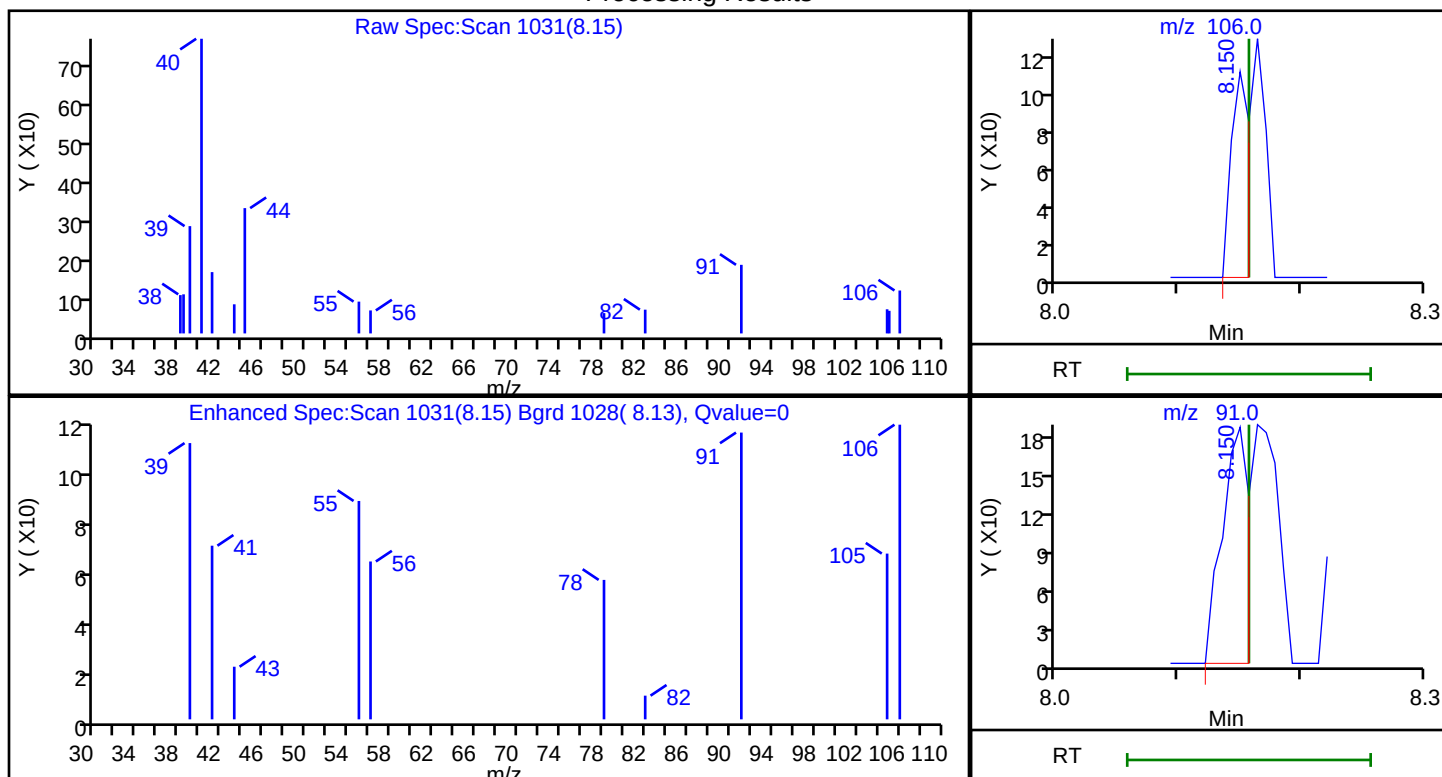
Column: DB-624 (0.18 mm)

Detector

MS SCAN

94 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
8.15	106.00	117	0.029549
8.15	91.00	270	

Reviewer: pakanatir, 24-May-2018 18:10:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

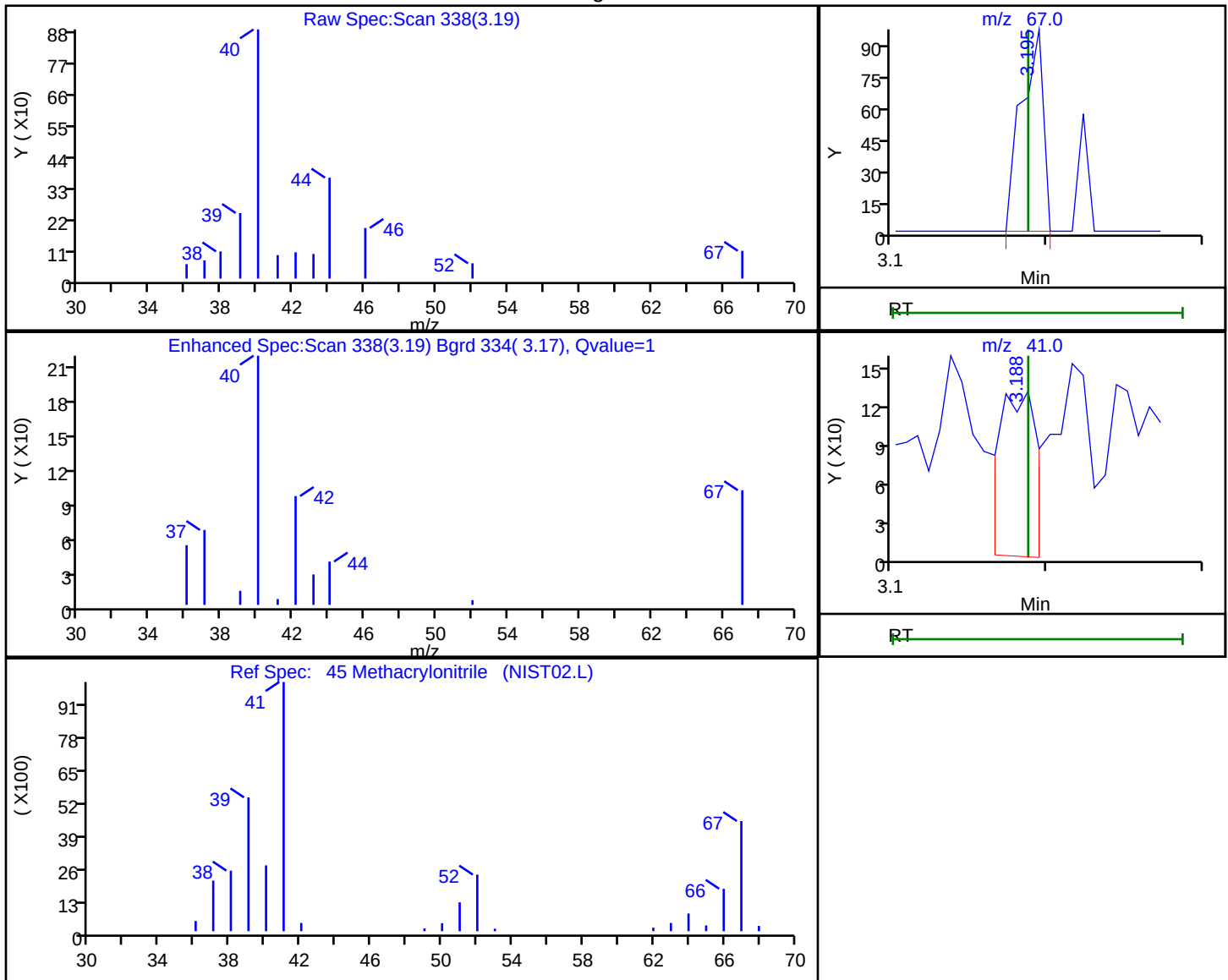
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

45 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
3.19	67.00	96	0.119217
3.19	41.00	223	

Reviewer: pakanatir, 24-May-2018 18:09:35

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

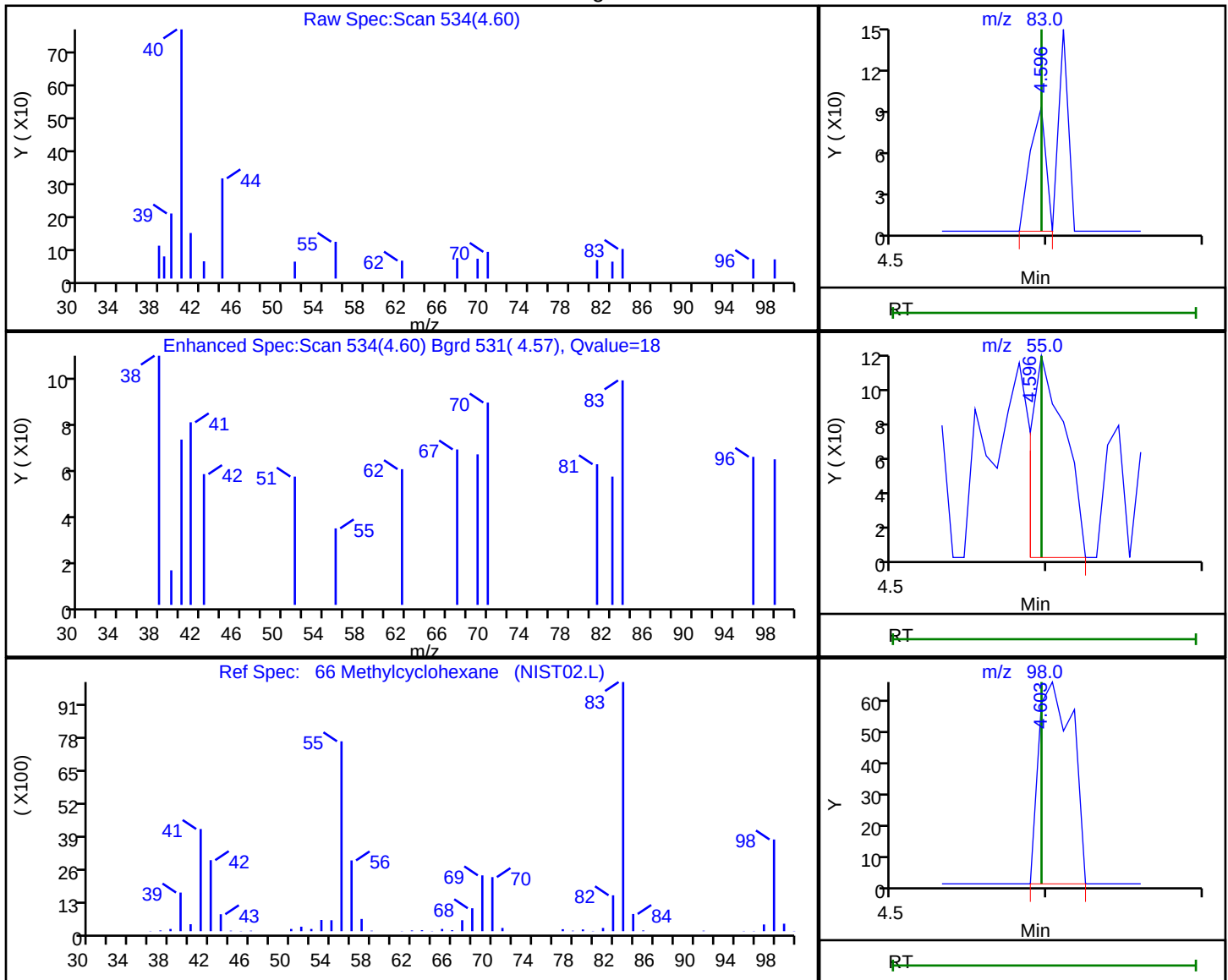
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

66 Methylcyclohexane, CAS: 108-87-2

Processing Results



RT	Mass	Response	Amount
4.60	83.00	64	0.021617
4.60	55.00	171	
4.60	98.00	100	

Reviewer: pakanatir, 24-May-2018 18:09:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

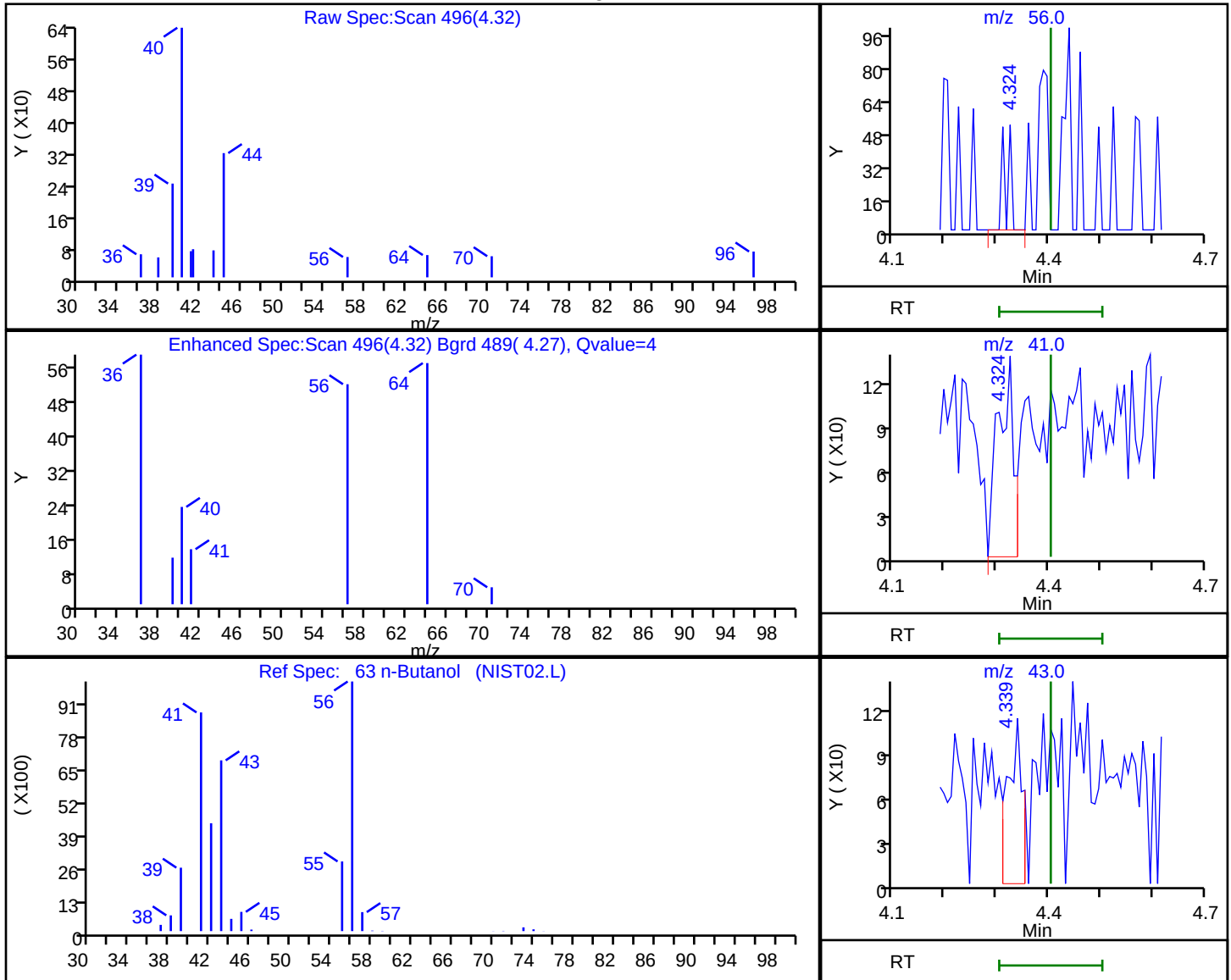
Column: DB-624 (0.18 mm)

Detector

MS SCAN

63 n-Butanol, CAS: 71-36-3

Processing Results



RT	Mass	Response	Amount
4.32	56.00	44	0.670138
4.32	41.00	290	
4.34	43.00	209	

Reviewer: pakanatir, 24-May-2018 18:09:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

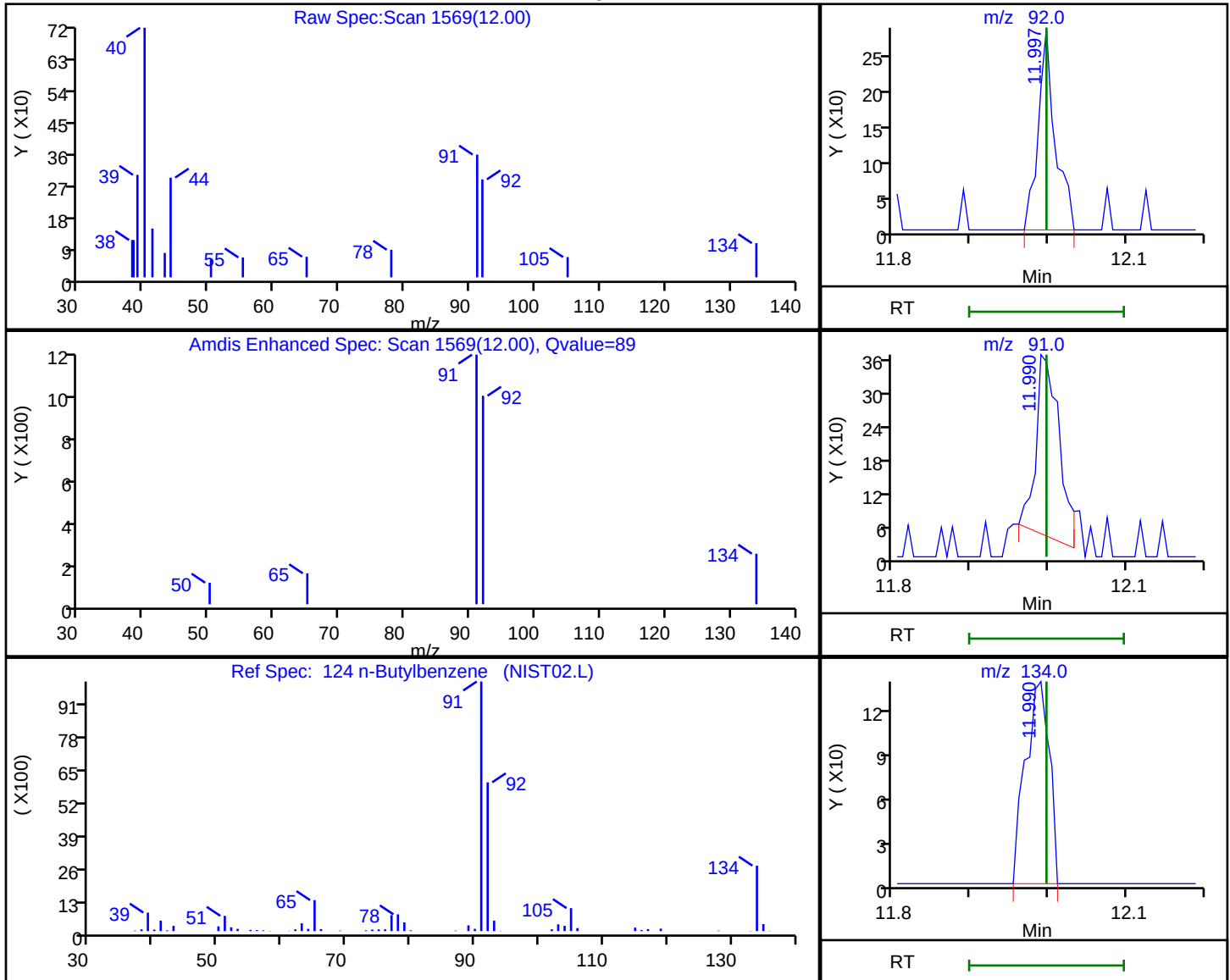
Column: DB-624 (0.18 mm)

Detector

MS SCAN

124 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
12.00	92.00	424	0.136382
11.99	91.00	686	
11.99	134.00	278	

Reviewer: pakanatir, 24-May-2018 18:10:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

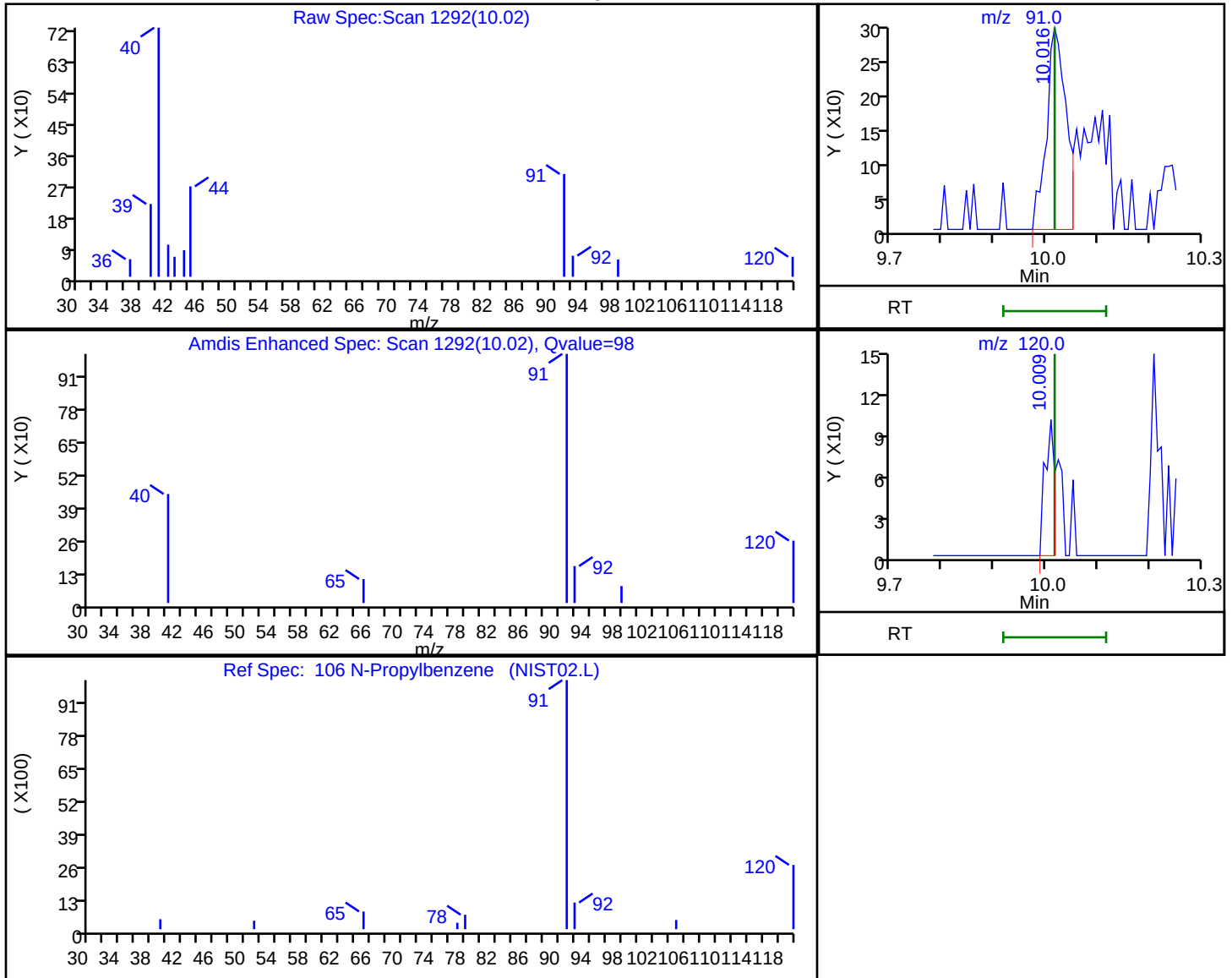
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

106 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
10.02	91.00	791	0.075992
10.01	120.00	119	

Reviewer: pakanatir, 24-May-2018 18:10:11

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

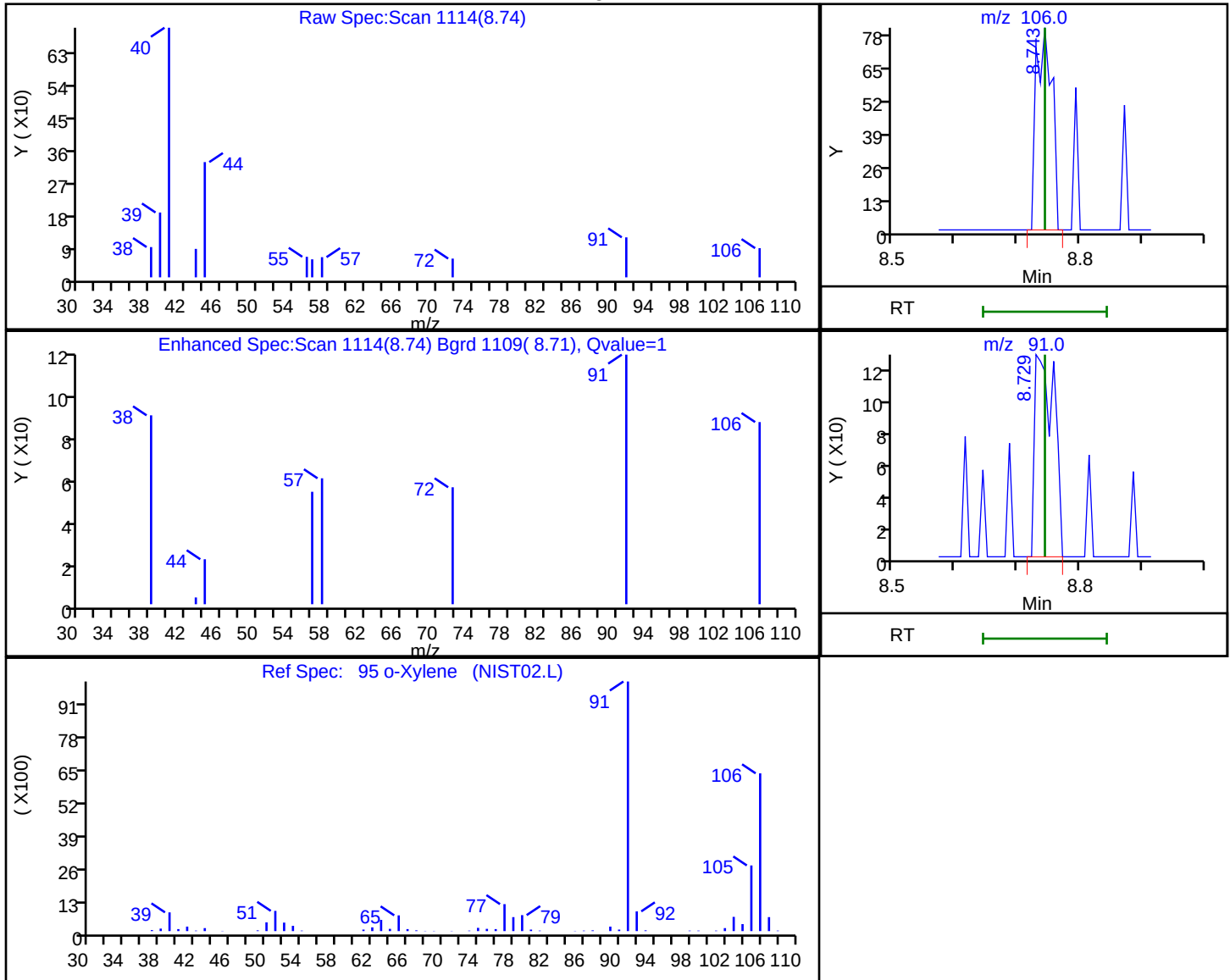
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

95 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
8.74	106.00	142	0.036131
8.73	91.00	260	

Reviewer: pakanatir, 24-May-2018 18:10:04

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

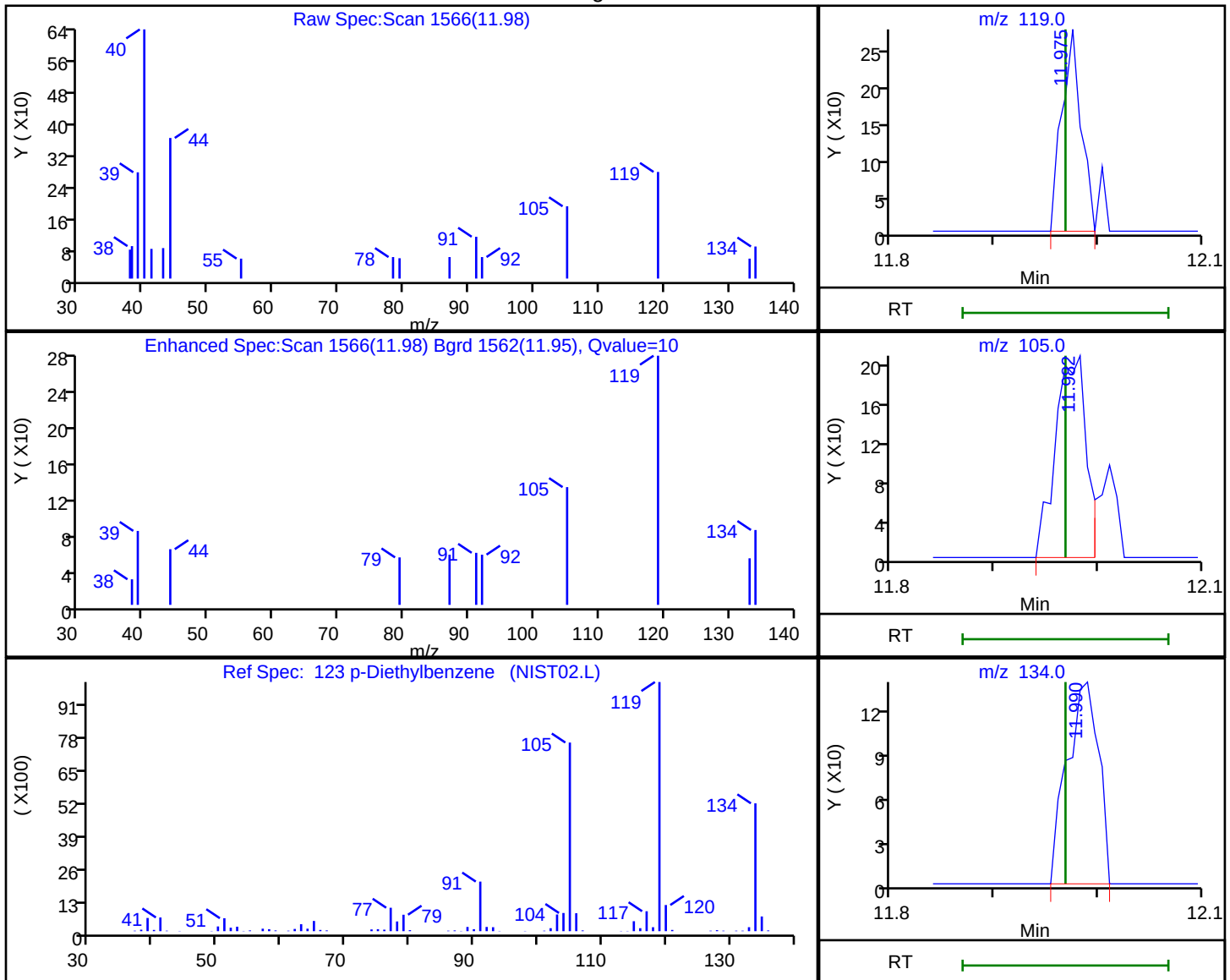
Column: DB-624 (0.18 mm)

Detector

MS SCAN

123 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
11.98	119.00	356	0.092111
11.98	105.00	425	
11.99	134.00	278	

Reviewer: pakanatir, 24-May-2018 18:10:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

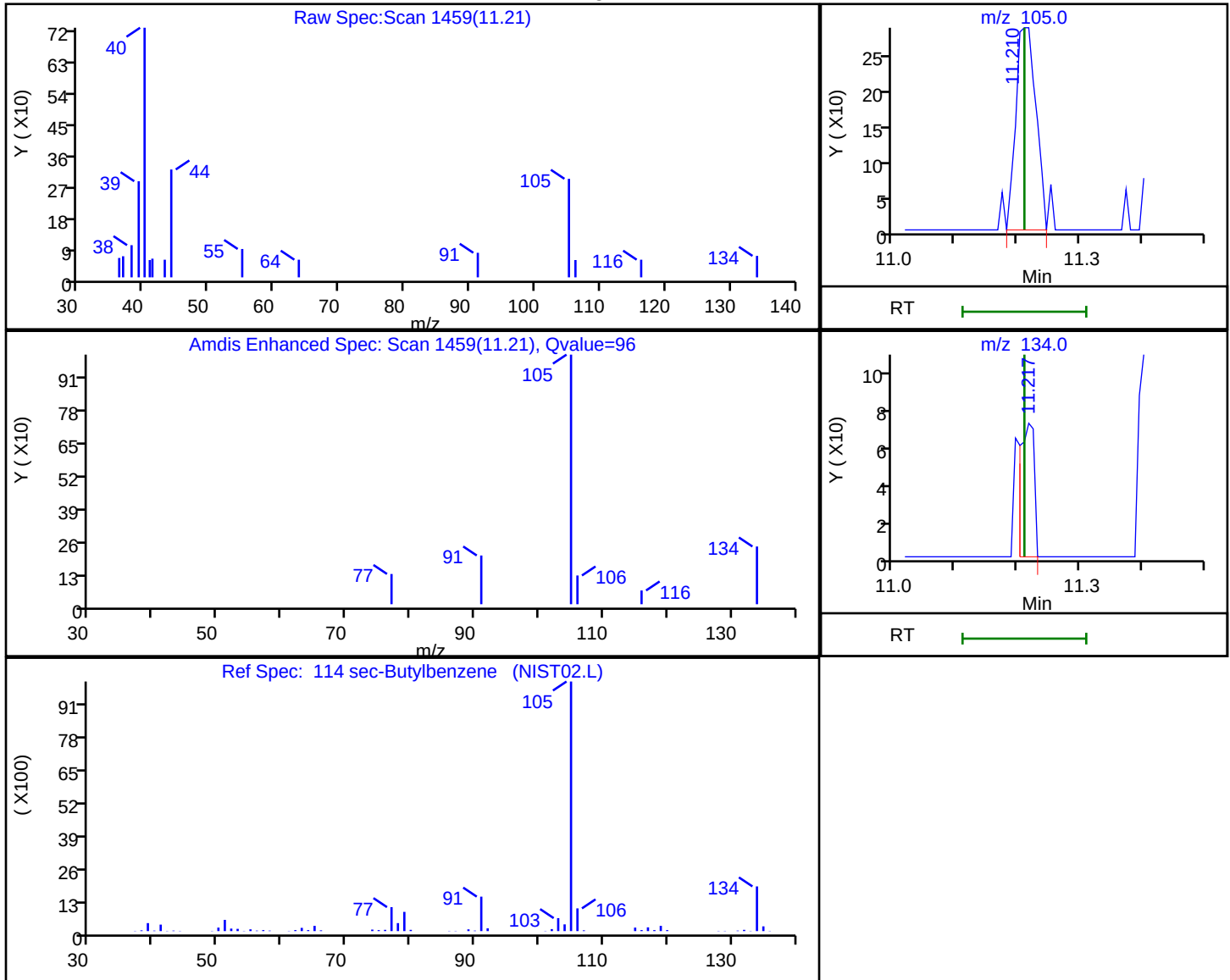
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

114 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
11.21	105.00	647	0.067160
11.22	134.00	113	

Reviewer: pakanatir, 24-May-2018 18:10:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

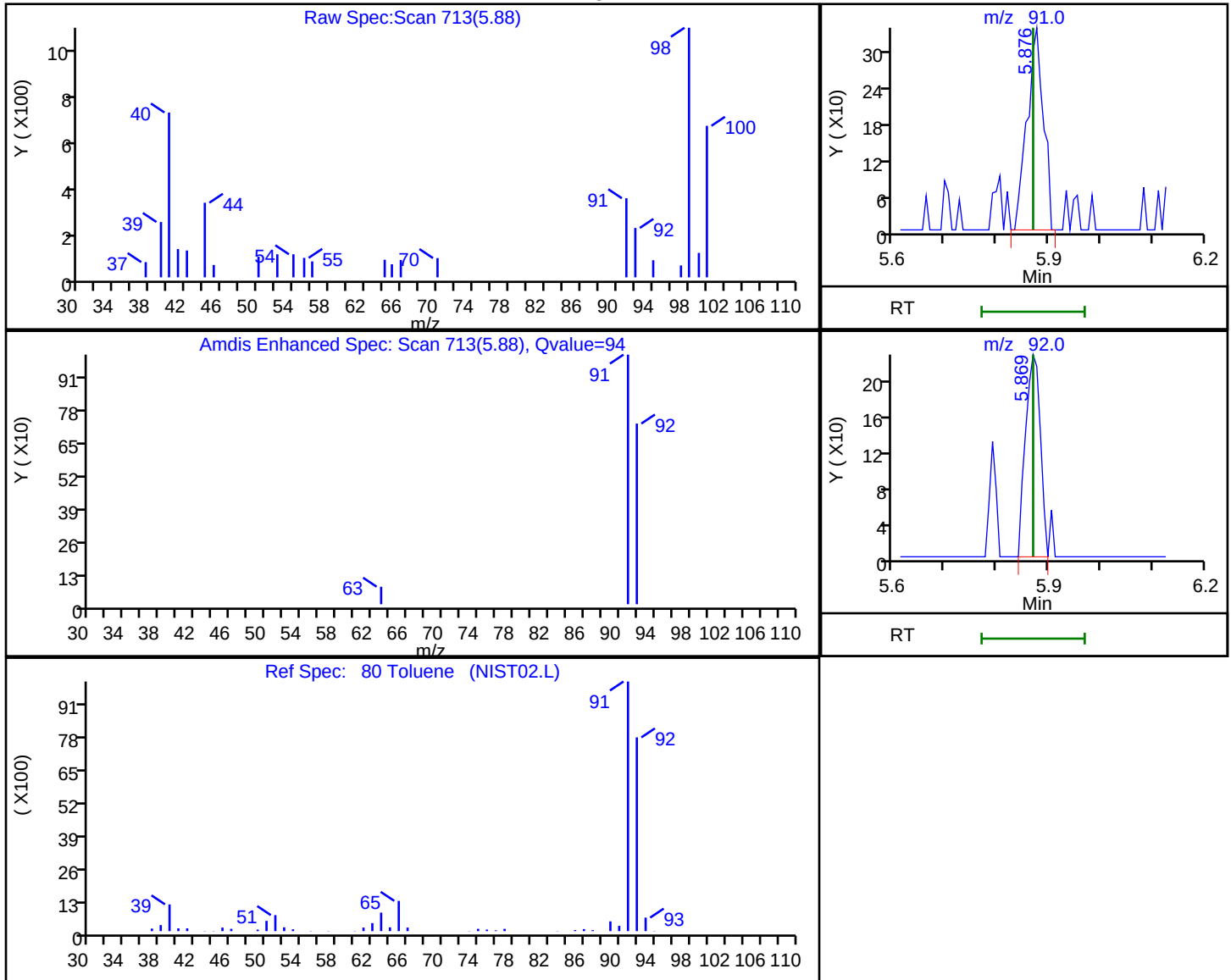
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

80 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
5.88	91.00	727	0.078465
5.87	92.00	441	

Reviewer: pakanatir, 24-May-2018 18:09:56

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

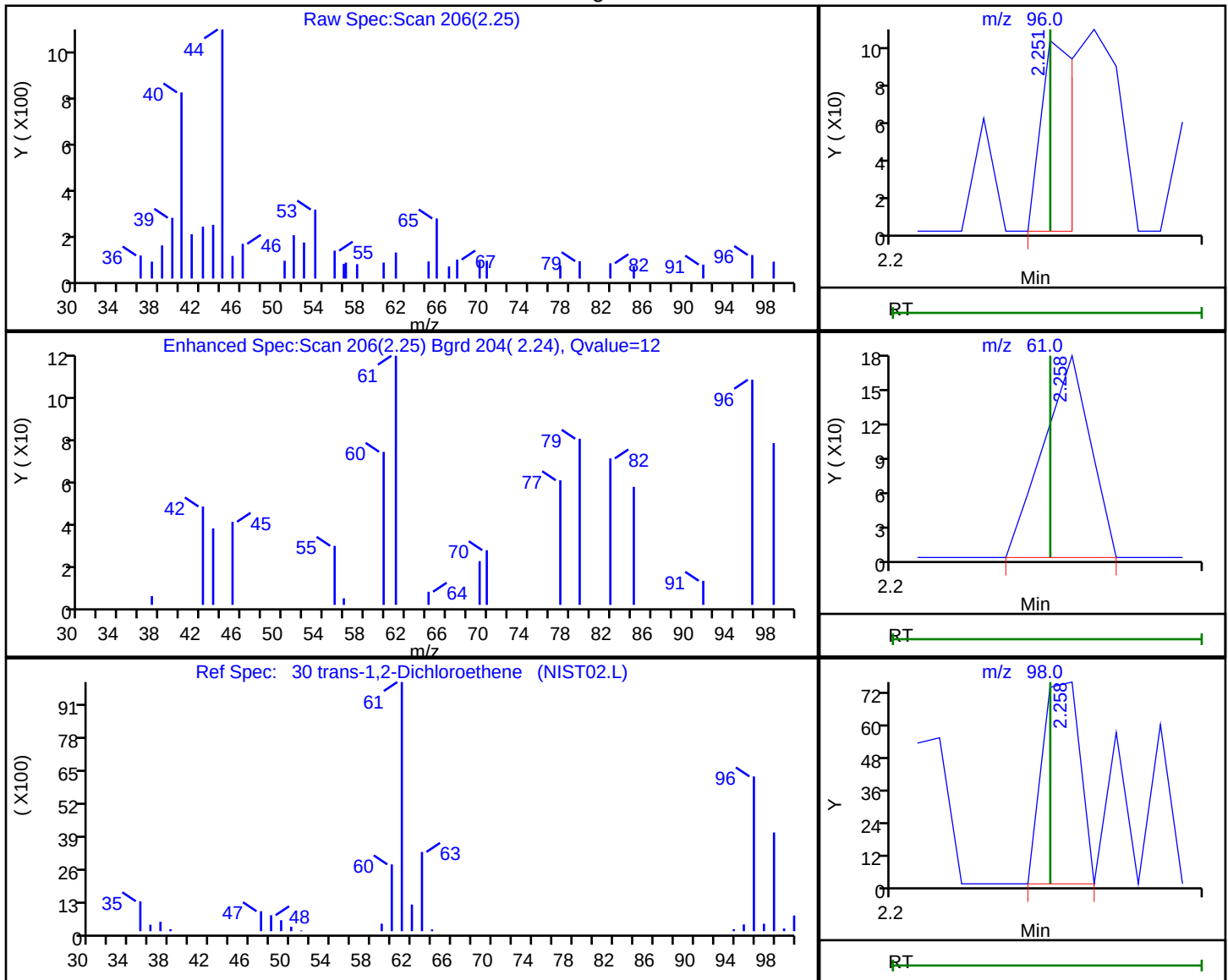
Column: DB-624 (0.18 mm)

Detector

MS SCAN

30 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
2.25	96.00	84	0.039386
2.26	61.00	183	
2.26	98.00	64	

Reviewer: pakanatir, 24-May-2018 18:07:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

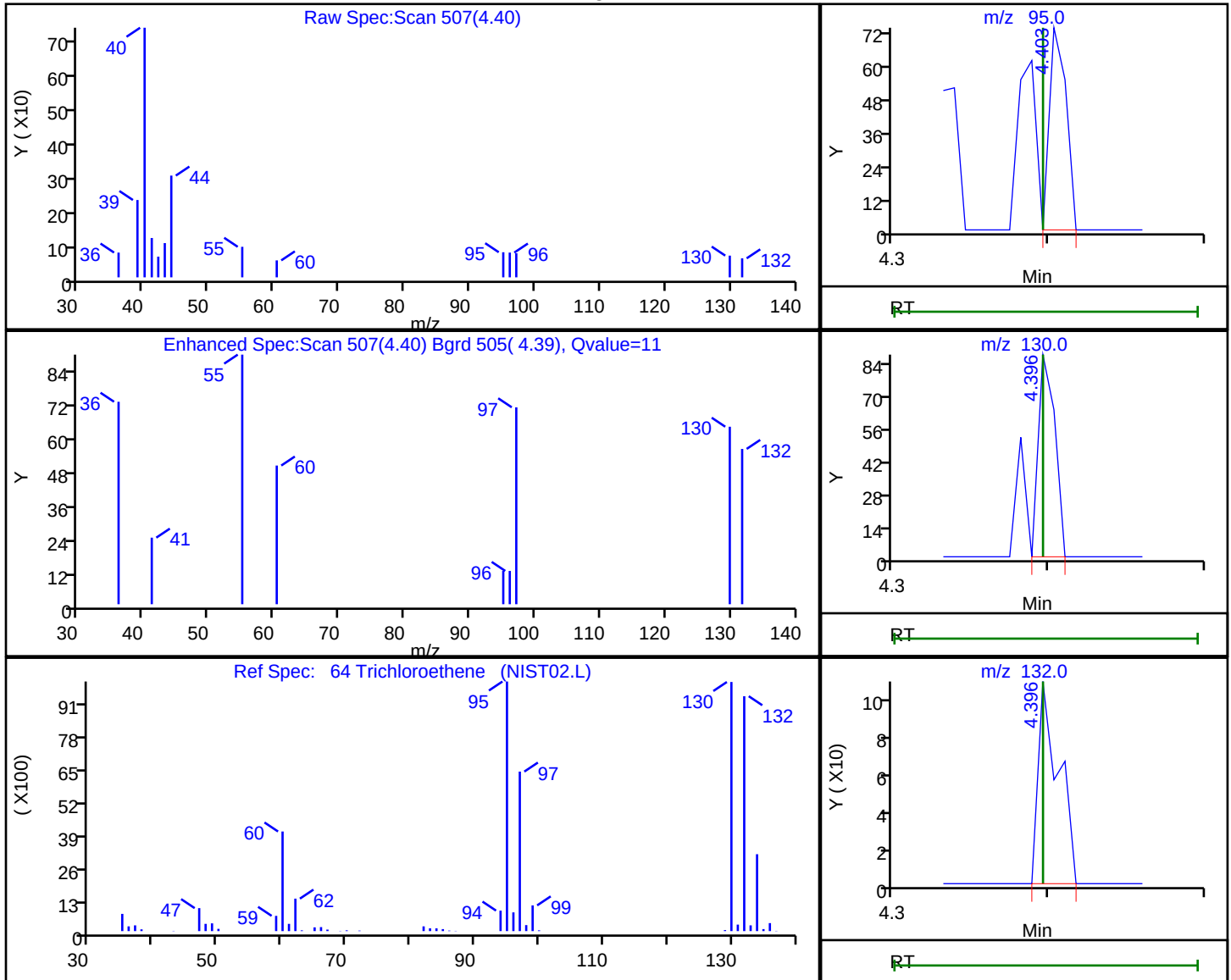
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

64 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
4.40	95.00	55	0.026350
4.40	130.00	65	
4.40	132.00	99	

Reviewer: pakanatir, 24-May-2018 18:09:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

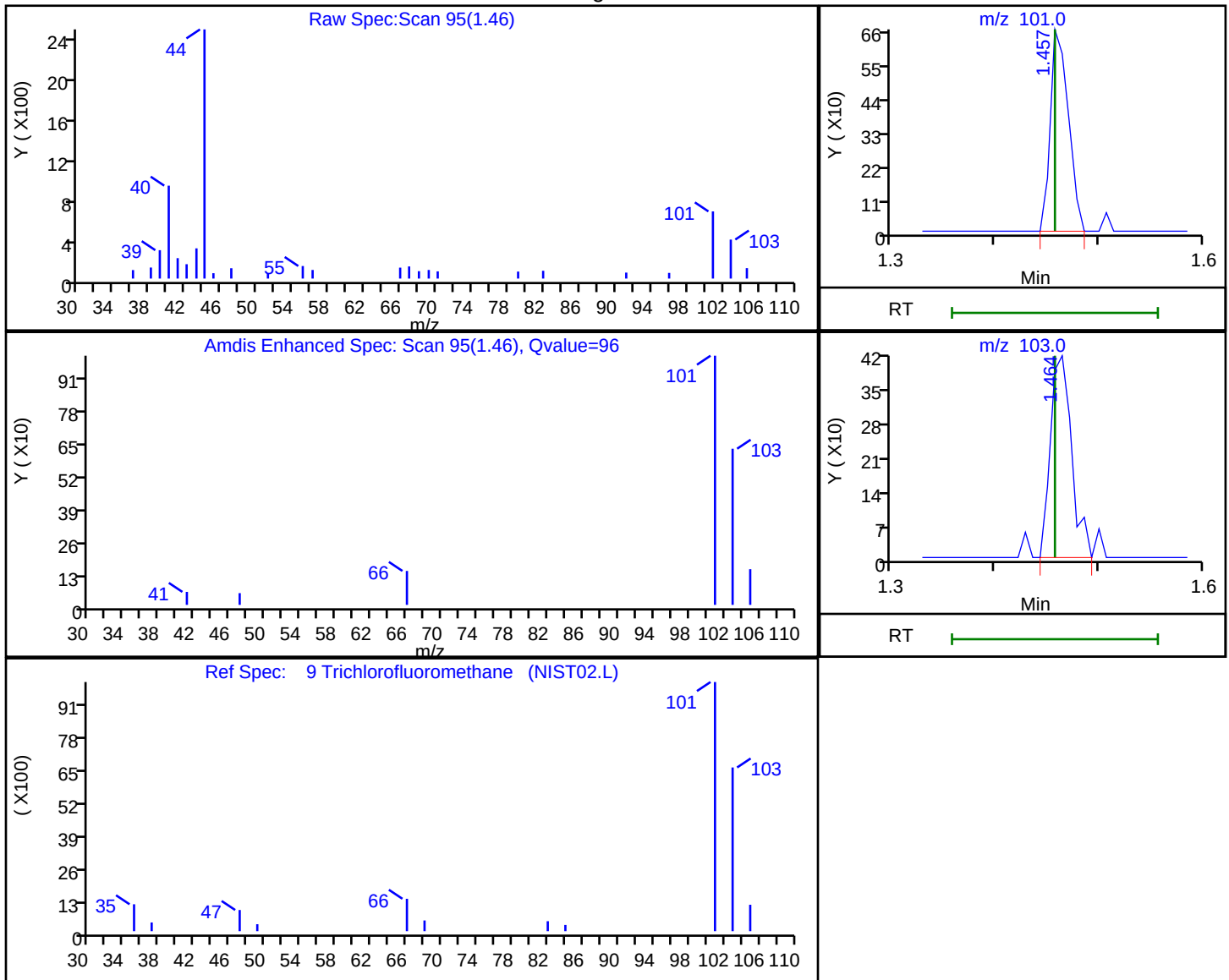
Column: DB-624 (0.18 mm)

Detector

MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
1.46	101.00	807	0.247019
1.46	103.00	593	

Reviewer: pakanatir, 24-May-2018 18:06:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39393.D

Injection Date: 24-May-2018 13:51:30

Instrument ID: CVOAMS12

Lims ID: STD7

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

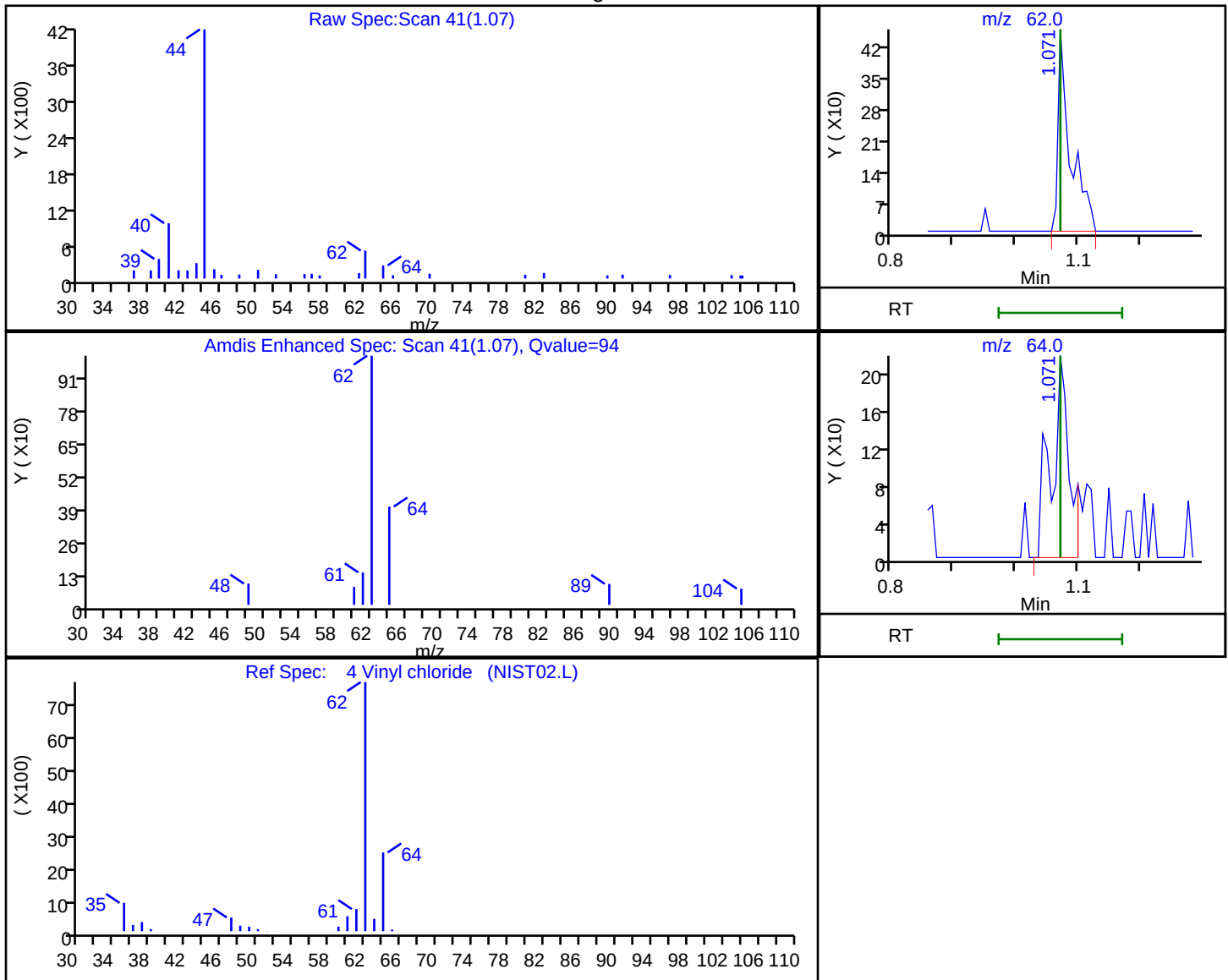
Column: DB-624 (0.18 mm)

Detector

MS SCAN

4 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.07	62.00	641	0.291092
1.07	64.00	428	

Reviewer: pakanatir, 24-May-2018 18:06:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39394.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-May-2018 14:19:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1
 Misc. Info.: 460-0072608-004
 Operator ID: Instrument ID: CVOAMS12
 Sublist: chrom-8260W_12*sub10
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 27-May-2018 12:12:54 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: martineze

Date: 24-May-2018 14:39:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	79	1078	1.00	0.9783	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	96	2620	1.00	1.09	
4 Vinyl chloride	62	1.071	1.071	0.000	96	2145	1.00	1.04	
5 Butadiene	54	1.093	1.093	0.000	96	1921	1.00	1.05	
3 Chloromethane	50	1.093	1.093	0.000	94	2958	1.00	1.11	
6 Bromomethane	94	1.250	1.250	0.000	92	1838	1.00	1.88	
7 Chloroethane	64	1.307	1.307	0.000	98	1886	1.00	1.56	
8 Dichlorofluoromethane	67	1.422	1.422	0.000	98	4106	1.00	1.12	
9 Trichlorofluoromethane	101	1.457	1.457	0.000	97	3396	1.00	1.06	
10 Pentane	72	1.507	1.500	0.007	93	608	2.00	2.02	
11 Ethanol	46	1.593	1.600	-0.007	85	1254	40.0	99.2	
13 Ethyl ether	59	1.636	1.636	0.000	90	1624	1.00	1.04	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	90	1769	1.00	1.03	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	96	1723	1.00	1.15	
15 Acrolein	56	1.700	1.708	-0.008	82	906	4.00	4.51	
16 1,1-Dichloroethene	96	1.765	1.765	0.000	96	1996	1.00	1.09	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	95	1968	1.00	1.08	
18 Acetone	58	1.808	1.808	0.000	85	1539	5.00	7.44	
19 Iodomethane	127	1.858	1.858	0.000	99	2009	1.00	1.30	
20 Carbon disulfide	76	1.893	1.893	0.000	99	6476	1.00	1.18	
21 Isopropyl alcohol	45	1.901	1.908	-0.007	29	1959	10.0	13.0	
22 Acetonitrile	38	1.986	1.986	0.000	82	909	10.0	11.5	
23 3-Chloro-1-propene	39	1.986	1.986	0.000	91	2460	1.00	1.00	
24 Methyl acetate	74	2.015	2.015	0.000	99	1027	2.00	2.51	
25 Cyclopentene	67	2.044	2.044	0.000	96	4757	1.00	1.20	
26 Methylene Chloride	84	2.072	2.072	0.000	96	2767	1.00	1.22	M
* 27 TBA-d9 (IS)	65	2.115	2.122	-0.007	0	242048	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.172	2.172	0.000	96	3980	10.0	13.6	
29 Acrylonitrile	53	2.229	2.237	-0.008	95	8000	10.0	10.8	
30 trans-1,2-Dichloroethene	96	2.258	2.251	0.007	93	2193	1.00	1.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	97	6598	1.00	1.04	
32 Hexane	57	2.451	2.458	-0.007	89	2131	1.00	1.08	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	99	2882	1.00	1.01	
34 Vinyl acetate	86	2.601	2.601	0.000	99	922	2.00	2.47	
36 Isopropyl ether	45	2.623	2.623	0.000	87	5143	1.00	1.05	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	73	1653	1.00	1.02	
37 Tert-butyl ethyl ether	59	2.902	2.902	0.000	92	5439	1.00	1.09	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	183679	250.0	250.0	
39 2,2-Dichloropropane	97	2.995	2.995	0.000	58	760	1.00	1.17	
40 cis-1,2-Dichloroethene	96	2.995	2.995	0.000	94	2530	1.00	1.18	
41 2-Butanone (MEK)	72	3.030	3.023	0.007	97	1251	5.00	5.03	
42 Propionitrile	52	3.059	3.059	0.000	92	634	10.0	10.9	
43 Ethyl acetate	70	3.088	3.080	0.008	98	502	2.00	2.21	
44 Methyl acrylate	55	3.109	3.109	0.000	96	2174	1.00	1.14	
46 Chlorobromomethane	128	3.188	3.188	0.000	49	1073	1.00	0.9299	
45 Methacrylonitrile	67	3.188	3.188	0.000	88	8655	10.0	10.4	
47 Tetrahydrofuran	42	3.245	3.245	0.000	83	1303	2.00	2.39	
48 Chloroform	83	3.266	3.266	0.000	97	3426	1.00	1.11	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	97	87119	50.0	53.0	
50 1,1,1-Trichloroethane	97	3.416	3.424	-0.008	99	2964	1.00	1.07	
51 Cyclohexane	84	3.474	3.474	0.000	87	2638	1.00	1.09	
52 1,1-Dichloropropene	75	3.567	3.567	0.000	90	2499	1.00	1.07	
53 Carbon tetrachloride	117	3.567	3.567	0.000	93	2501	1.00	1.01	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	97058	50.0	54.3	
55 Isobutyl alcohol	43	3.731	3.731	0.000	94	2153	25.0	24.4	
56 Benzene	78	3.752	3.753	-0.001	97	7346	1.00	1.09	
57 1,2-Dichloroethane	62	3.767	3.774	-0.007	97	3175	1.00	1.22	
58 Isooctane	57	3.853	3.860	-0.007	81	4413	1.00	1.10	
59 Isopropyl acetate	61	3.867	3.867	0.000	94	787	1.00	1.04	
60 Tert-amyl methyl ether	73	3.888	3.888	0.000	89	5815	1.00	1.01	
* 61 Fluorobenzene	96	4.024	4.024	0.000	99	333704	50.0	50.0	
62 n-Heptane	43	4.046	4.053	-0.007	82	1945	1.00	1.10	a
64 Trichloroethene	95	4.396	4.396	0.000	94	2202	1.00	1.10	
63 n-Butanol	56	4.403	4.403	0.000	49	1644	25.0	25.9	
65 Ethyl acrylate	55	4.560	4.553	0.007	97	2408	1.00	0.9579	a
66 Methylcyclohexane	83	4.596	4.596	0.000	84	3052	1.00	1.07	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	91	1850	1.00	1.06	
69 Dibromomethane	93	4.746	4.746	0.000	29	1420	1.00	1.06	
* 68 1,4-Dioxane-d8	96	4.754	4.754	0.000	0	27177	1000.0	1000.0	
71 Methyl methacrylate	100	4.804	4.804	0.000	86	1294	2.00	1.99	
70 1,4-Dioxane	88	4.804	4.811	-0.007	46	1696	50.0	55.7	
72 n-Propyl acetate	43	4.882	4.889	-0.007	97	2516	1.00	0.9780	
73 Dichlorobromomethane	83	4.932	4.939	-0.007	98	2610	1.00	1.03	
74 2-Nitropropane	41	5.204	5.204	0.000	92	822	2.00	1.56	
75 2-Chloroethyl vinyl ether	63	5.333	5.326	0.007	93	1466	1.00	1.01	
76 Epichlorohydrin	57	5.368	5.368	0.000	98	4497	20.0	21.0	
77 cis-1,3-Dichloropropene	75	5.469	5.469	0.000	66	3179	1.00	1.09	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	95	8962	5.00	5.02	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	99	353181	50.0	53.8	
80 Toluene	91	5.876	5.869	0.007	92	9427	1.00	1.15	
81 trans-1,3-Dichloropropene	75	6.184	6.176	0.008	95	2836	1.00	1.01	
82 Ethyl methacrylate	69	6.362	6.362	0.000	87	2699	1.00	1.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.398	6.398	0.000	91	1554	1.00	1.04	
84 Tetrachloroethene	166	6.570	6.570	0.000	96	2356	1.00	1.02	
85 1,3-Dichloropropane	76	6.613	6.613	0.000	91	3028	1.00	1.04	
86 2-Hexanone	43	6.798	6.791	0.007	96	6769	5.00	5.12	
87 Chlorodibromomethane	129	6.906	6.906	0.000	95	2207	1.00	0.9615	
88 n-Butyl acetate	43	7.027	7.020	0.007	98	3163	1.00	1.09	
89 Ethylene Dibromide	107	7.034	7.034	0.000	76	2128	1.00	1.02	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	86	302452	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	92	6312	1.00	1.07	
92 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	89	2088	1.00	0.9827	
93 Ethylbenzene	106	7.971	7.971	0.000	98	3347	1.00	1.10	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	4041	1.00	1.07	
95 o-Xylene	106	8.743	8.743	0.000	93	3931	1.00	1.05	
96 Styrene	104	8.779	8.772	0.007	96	6994	1.00	1.06	
97 n-Butyl acrylate	73	8.829	8.829	0.000	98	1574	1.00	1.00	
98 Bromoform	173	8.994	8.994	0.000	95	1572	1.00	0.8679	
99 Amyl acetate (mixed isomer	43	9.215	9.215	0.000	93	3014	1.00	0.9529	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	9862	1.00	1.08	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	94	143529	50.0	51.3	
102 Bromobenzene	156	9.744	9.737	0.007	92	2982	1.00	1.09	
103 1,1,2,2-Tetrachloroethane	83	9.852	9.852	0.000	95	2873	1.00	1.13	
104 1,2,3-Trichloropropane	110	9.880	9.873	0.007	93	875	1.00	1.02	
105 trans-1,4-Dichloro-2-buten	53	9.959	9.952	0.007	87	785	1.00	1.03	
106 N-Propylbenzene	91	10.016	10.016	0.000	99	10779	1.00	1.12	
107 2-Chlorotoluene	91	10.095	10.088	0.007	97	7625	1.00	1.16	
108 4-Ethyltoluene	105	10.223	10.216	0.007	98	9650	1.00	1.12	
109 4-Chlorotoluene	91	10.281	10.281	0.000	94	8266	1.00	1.24	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	92	7772	1.00	1.13	
111 Butyl Methacrylate	87	10.617	10.617	0.000	90	2384	1.00	0.9096	
112 tert-Butylbenzene	119	10.853	10.853	0.000	96	6905	1.00	1.06	
113 1,2,4-Trimethylbenzene	105	10.931	10.939	-0.007	97	7131	1.00	1.07	
114 sec-Butylbenzene	105	11.210	11.210	0.000	99	9683	1.00	1.11	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	5435	1.00	1.08	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	95	180722	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.439	11.439	0.000	93	5918	1.00	1.12	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	96	8085	1.00	1.08	
119 1,2,3-Trimethylbenzene	105	11.561	11.553	0.008	97	7157	1.00	1.06	
120 Benzyl chloride	126	11.661	11.654	0.007	99	1246	1.00	1.08	
121 2,3-Dihydroindene	117	11.789	11.782	0.007	93	9265	1.00	1.12	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	97	5414	1.00	1.10	
123 p-Diethylbenzene	119	11.975	11.968	0.007	93	4128	1.00	1.09	
124 n-Butylbenzene	92	11.997	11.997	0.000	97	3432	1.00	1.13	
125 1,2-Dibromo-3-Chloropropan	75	12.798	12.790	0.008	83	573	1.00	0.9841	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	96	4676	1.00	1.09	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	95	2575	1.00	0.9777	
128 1,2,4-Trichlorobenzene	180	13.577	13.570	0.007	95	2295	1.00	0.99	
129 Hexachlorobutadiene	225	13.749	13.749	0.000	92	1397	1.00	1.08	
130 Naphthalene	128	13.770	13.770	0.000	99	5427	1.00	1.11	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	92	2107	1.00	0.9826	
S 132 1,2-Dichloroethene, Total	100				0		2.00	2.25	
S 133 Xylenes, Total	100				0		2.00	2.12	
S 134 Total BTEX	1				0		5.00	5.47	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00174	Amount Added: 1.00	Units: uL	
ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
Ethanol mix_00015	Amount Added: 1.00	Units: uL	
MIX 2 Hi_00070	Amount Added: 1.00	Units: uL	
MIX I Hi_00094	Amount Added: 1.00	Units: uL	
GAS Hi_00256	Amount Added: 1.00	Units: uL	
14DIOXINTER_00084	Amount Added: 30.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39394.D

Injection Date: 24-May-2018 14:19:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: STD1

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

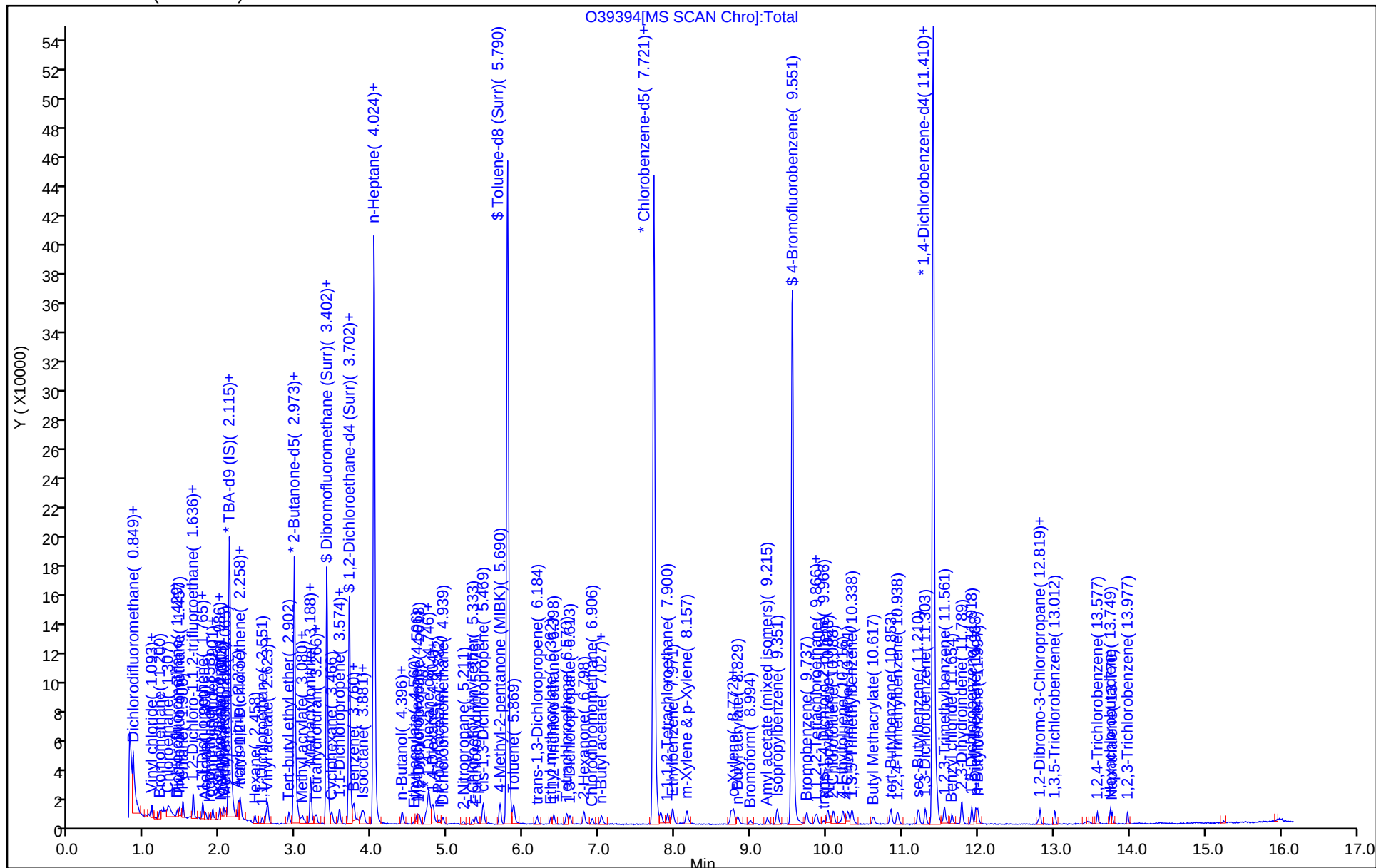
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39394.D

Injection Date: 24-May-2018 14:19:30

Instrument ID: CVOAMS12

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

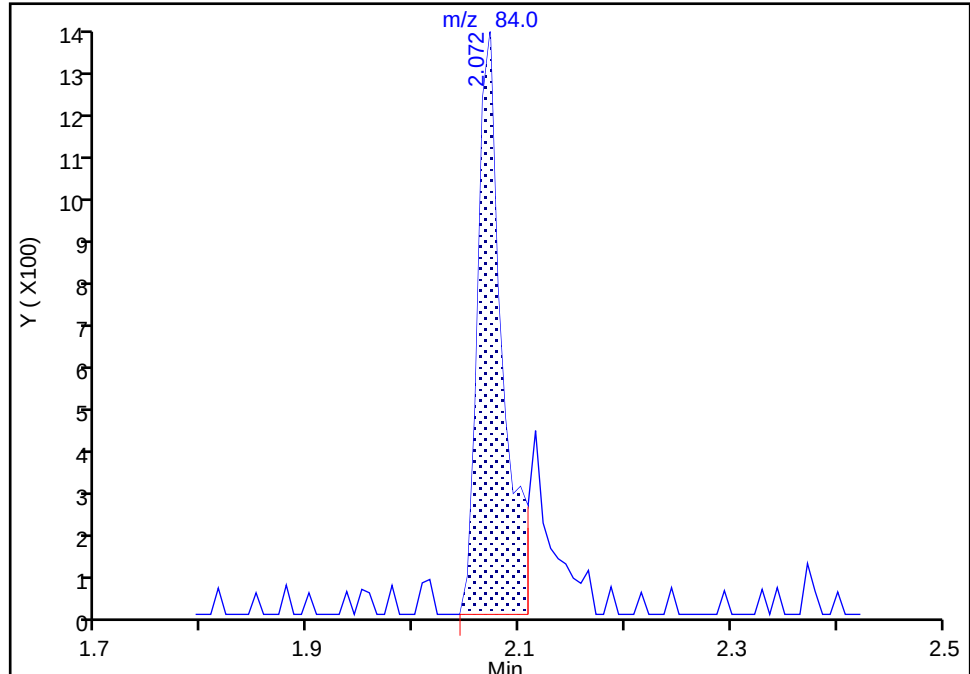
MS SCAN

26 Methylene Chloride, CAS: 75-09-2

Signal: 1

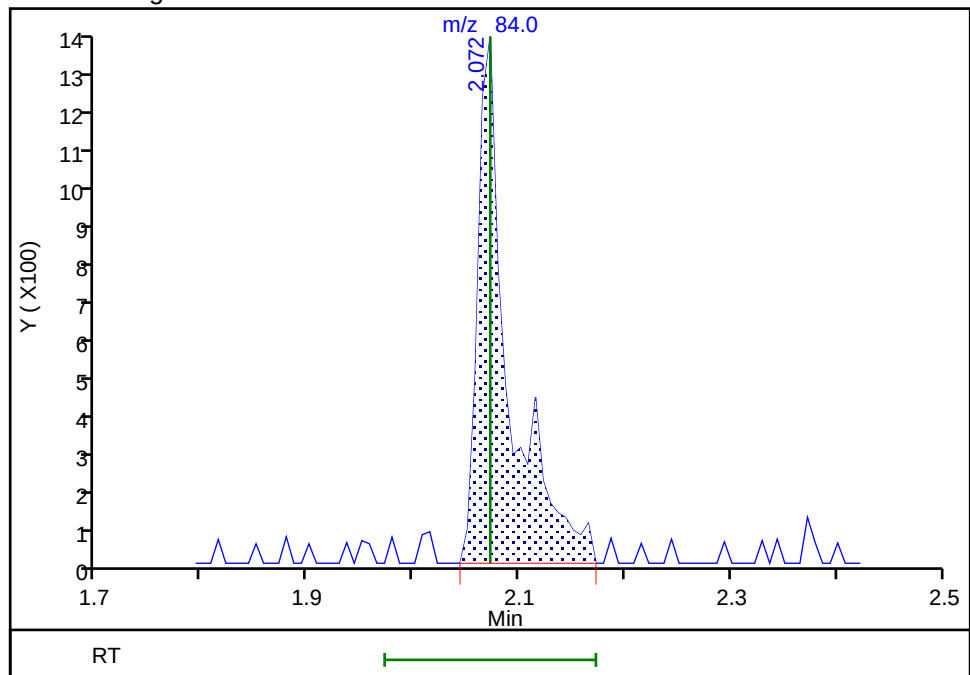
RT: 2.07
Area: 2211
Amount: 1.020144
Amount Units: ug/l

Processing Integration Results



RT: 2.07
Area: 2767
Amount: 1.224332
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:40:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39394.D

Injection Date: 24-May-2018 14:19:30

Instrument ID: CVOAMS12

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

MS SCAN

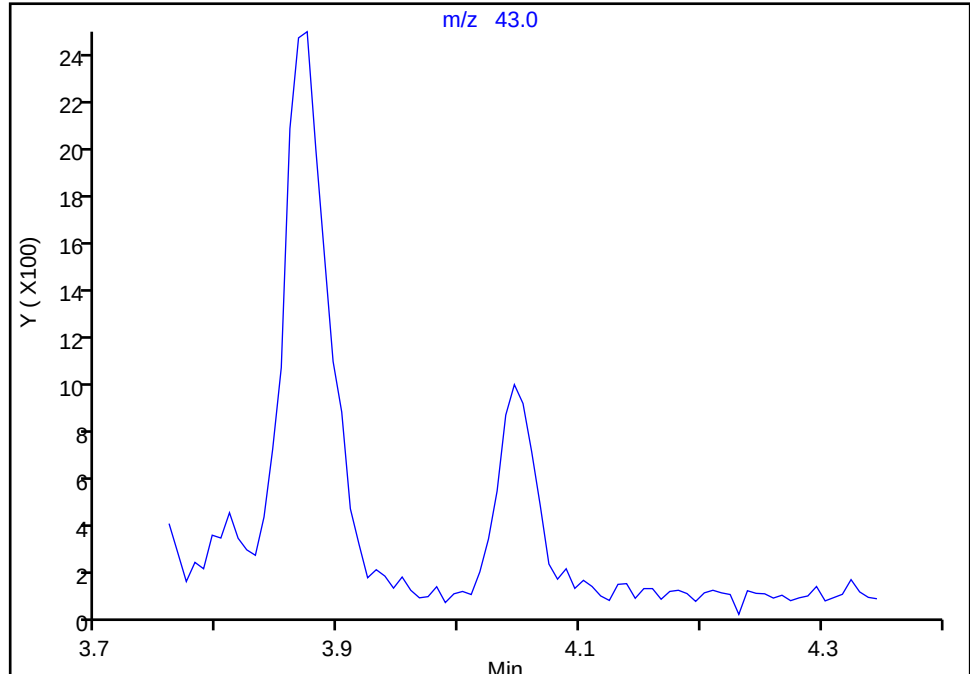
62 n-Heptane, CAS: 142-82-5

Signal: 1

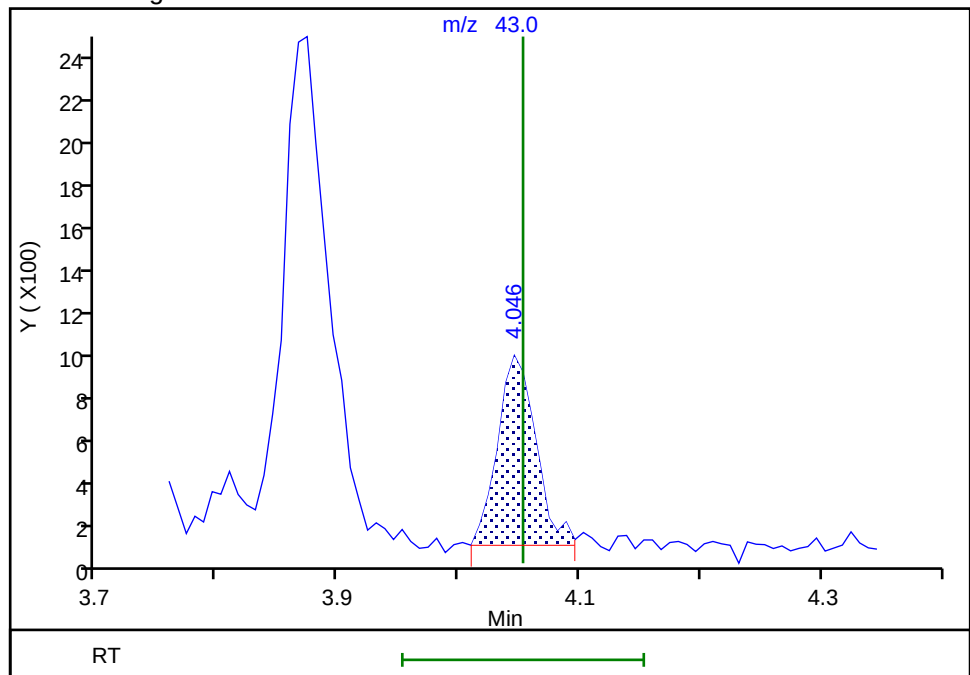
Not Detected

Expected RT: 4.05

Processing Integration Results



Manual Integration Results



RT: 4.05

Area: 1945

Amount: 1.098255

Amount Units: ug/l

Reviewer: delpolitov, 27-May-2018 09:39:00

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39394.D

Injection Date: 24-May-2018 14:19:30

Instrument ID: CVOAMS12

Lims ID: STD1

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 4

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

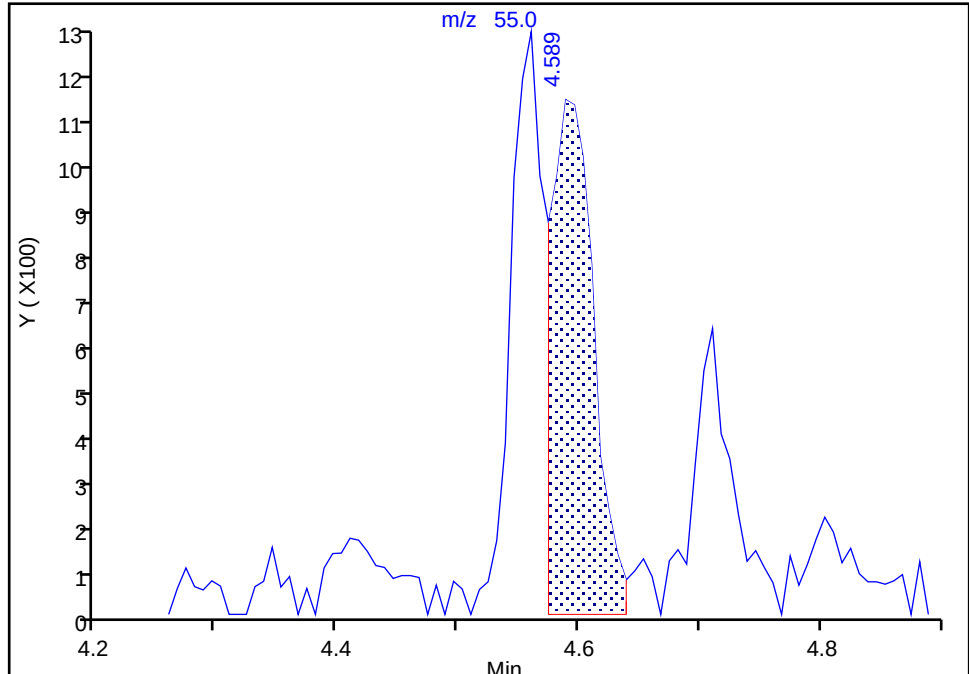
Detector: MS SCAN

65 Ethyl acrylate, CAS: 140-88-5

Signal: 1

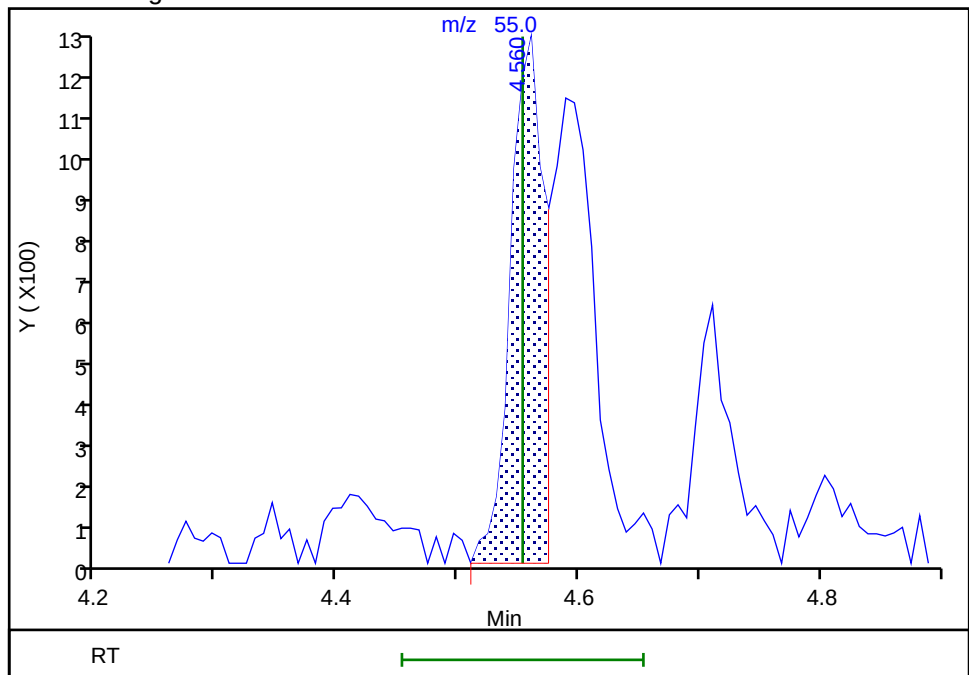
RT: 4.59
Area: 2706
Amount: 1.226344
Amount Units: ug/l

Processing Integration Results



RT: 4.56
Area: 2408
Amount: 0.957873
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:39:07

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39395.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-May-2018 14:48:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Misc. Info.: 460-0072608-005
 Operator ID: Instrument ID: CVOAMS12
 Sublist: chrom-8260W_12*sub10
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 27-May-2018 12:13:14 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: martineze

Date: 24-May-2018 15:18:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	85	6716	5.00	4.02	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	98	17356	5.00	5.01	
4 Vinyl chloride	62	1.071	1.071	0.000	98	15663	5.00	5.26	
3 Chloromethane	50	1.093	1.093	0.000	99	18075	5.00	4.69	
5 Butadiene	54	1.093	1.093	0.000	98	13206	5.00	5.00	
6 Bromomethane	94	1.250	1.250	0.000	99	9197	5.00	6.21	Ma
7 Chloroethane	64	1.307	1.307	0.000	98	11619	5.00	6.66	
8 Dichlorofluoromethane	67	1.429	1.429	0.000	98	27035	5.00	5.11	
9 Trichlorofluoromethane	101	1.457	1.457	0.000	99	23343	5.00	5.06	
10 Pentane	72	1.507	1.507	0.000	95	4094	10.0	9.42	
11 Ethanol	46	1.586	1.586	0.000	98	6635	200.0	350.8	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	92	11569	5.00	4.66	
13 Ethyl ether	59	1.636	1.636	0.000	93	11007	5.00	4.89	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	97	10199	5.00	4.72	
15 Acrolein	56	1.700	1.700	0.000	95	4399	20.0	14.6	
16 1,1-Dichloroethene	96	1.765	1.765	0.000	97	12103	5.00	4.57	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	96	12088	5.00	4.61	
18 Acetone	58	1.800	1.800	0.000	86	7068	25.0	22.6	
19 Iodomethane	127	1.858	1.858	0.000	99	10023	5.00	4.49	
20 Carbon disulfide	76	1.900	1.900	0.000	100	38570	5.00	4.86	
21 Isopropyl alcohol	45	1.900	1.900	0.000	35	10741	50.0	47.5	
23 3-Chloro-1-propene	39	1.986	1.986	0.000	91	17470	5.00	4.90	
22 Acetonitrile	38	1.986	1.986	0.000	79	5419	50.0	45.8	
24 Methyl acetate	74	2.008	2.008	0.000	99	5471	10.0	8.92	
25 Cyclopentene	67	2.043	2.043	0.000	96	28514	5.00	4.98	
26 Methylene Chloride	84	2.072	2.072	0.000	90	15602	5.00	4.77	M
* 27 TBA-d9 (IS)	65	2.115	2.115	0.000	0	363003	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.172	2.172	0.000	99	20090	50.0	45.9	
29 Acrylonitrile	53	2.237	2.237	0.000	95	53246	50.0	49.6	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	92	13992	5.00	4.72	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	96	44877	5.00	4.90	
32 Hexane	57	2.458	2.458	0.000	91	12589	5.00	4.40	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	99	19607	5.00	4.74	
34 Vinyl acetate	86	2.601	2.601	0.000	99	4718	10.0	8.35	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	91	10843	5.00	4.65	
36 Isopropyl ether	45	2.623	2.623	0.000	86	34080	5.00	4.81	
37 Tert-butyl ethyl ether	59	2.902	2.902	0.000	91	36274	5.00	5.05	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	278224	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.994	2.994	0.000	97	13896	5.00	4.49	
39 2,2-Dichloropropane	97	3.002	3.002	0.000	77	4265	5.00	4.53	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	99	9063	25.0	24.1	
42 Propionitrile	52	3.059	3.059	0.000	94	3991	50.0	45.8	
43 Ethyl acetate	70	3.080	3.080	0.000	100	3226	10.0	9.37	
44 Methyl acrylate	55	3.109	3.109	0.000	99	12201	5.00	4.43	
45 Methacrylonitrile	67	3.188	3.188	0.000	90	58168	50.0	48.4	
46 Chlorobromomethane	128	3.195	3.195	0.000	49	7783	5.00	4.66	
47 Tetrahydrofuran	42	3.245	3.245	0.000	89	7188	10.0	8.70	
48 Chloroform	83	3.266	3.266	0.000	99	22094	5.00	4.95	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	97	116028	50.0	48.8	
50 1,1,1-Trichloroethane	97	3.423	3.423	0.000	98	19245	5.00	4.80	
51 Cyclohexane	84	3.474	3.474	0.000	88	16228	5.00	4.64	
53 Carbon tetrachloride	117	3.566	3.566	0.000	88	16730	5.00	4.68	
52 1,1-Dichloropropene	75	3.566	3.566	0.000	92	16349	5.00	4.84	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	128925	50.0	49.9	
55 Isobutyl alcohol	43	3.731	3.731	0.000	98	13983	125.0	105.9	a
56 Benzene	78	3.760	3.760	0.000	95	46768	5.00	4.71	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	18510	5.00	4.93	
58 Isooctane	57	3.853	3.853	0.000	98	26876	5.00	4.62	
59 Isopropyl acetate	61	3.867	3.867	0.000	97	5224	5.00	4.78	
60 Tert-amyl methyl ether	73	3.895	3.895	0.000	90	39296	5.00	4.72	
* 61 Fluorobenzene	96	4.024	4.024	0.000	99	482590	50.0	50.0	
62 n-Heptane	43	4.053	4.053	0.000	90	10494	5.00	4.10	
64 Trichloroethene	95	4.396	4.396	0.000	96	13778	5.00	4.75	
63 n-Butanol	56	4.396	4.396	0.000	53	9495	125.0	99.6	
65 Ethyl acrylate	55	4.553	4.553	0.000	98	16808	5.00	4.62	a
66 Methylcyclohexane	83	4.596	4.596	0.000	88	18226	5.00	4.43	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	92	11880	5.00	4.70	
69 Dibromomethane	93	4.746	4.746	0.000	92	9471	5.00	4.88	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	41420	1000.0	1000.0	
71 Methyl methacrylate	100	4.803	4.803	0.000	85	8599	10.0	9.13	
70 1,4-Dioxane	88	4.803	4.803	0.000	31	4442	100.0	95.7	
72 n-Propyl acetate	43	4.889	4.889	0.000	97	17701	5.00	4.76	
73 Dichlorobromomethane	83	4.939	4.939	0.000	98	17955	5.00	4.89	
74 2-Nitropropane	41	5.204	5.204	0.000	99	6620	10.0	8.66	
75 2-Chloroethyl vinyl ether	63	5.325	5.325	0.000	93	9990	5.00	4.74	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	31092	100.0	96.0	
77 cis-1,3-Dichloropropene	75	5.468	5.468	0.000	94	20489	5.00	4.78	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	96	65988	25.0	24.4	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	471086	50.0	48.7	
80 Toluene	91	5.869	5.869	0.000	93	58220	5.00	4.84	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	98	20063	5.00	4.84	
82 Ethyl methacrylate	69	6.362	6.362	0.000	89	18293	5.00	4.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.398	6.398	0.000	92	10861	5.00	4.91	
84 Tetrachloroethene	166	6.570	6.570	0.000	96	14855	5.00	4.38	
85 1,3-Dichloropropane	76	6.612	6.612	0.000	93	21634	5.00	5.03	
86 2-Hexanone	43	6.798	6.798	0.000	94	47412	25.0	23.7	
87 Chlorodibromomethane	129	6.906	6.906	0.000	98	15605	5.00	4.62	
88 n-Butyl acetate	43	7.027	7.027	0.000	98	20233	5.00	4.73	
89 Ethylene Dibromide	107	7.034	7.034	0.000	98	14655	5.00	4.77	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	85	445495	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	97	41343	5.00	4.76	
92 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	94	14094	5.00	4.50	
93 Ethylbenzene	106	7.964	7.964	0.000	98	21475	5.00	4.80	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	27134	5.00	4.89	
95 o-Xylene	106	8.743	8.743	0.000	94	26786	5.00	4.86	
96 Styrene	104	8.772	8.772	0.000	97	45741	5.00	4.72	
97 n-Butyl acrylate	73	8.829	8.829	0.000	96	10835	5.00	4.69	
98 Bromoform	173	8.994	8.994	0.000	96	10987	5.00	4.12	
99 Amyl acetate (mixed isomer	43	9.215	9.215	0.000	91	24132	5.00	5.19	
100 Isopropylbenzene	105	9.351	9.351	0.000	96	64665	5.00	4.81	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	94	193146	50.0	46.9	
102 Bromobenzene	156	9.737	9.737	0.000	93	19696	5.00	4.87	
103 1,1,2,2-Tetrachloroethane	83	9.852	9.852	0.000	96	18515	5.00	4.96	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	95	6293	5.00	4.99	
105 trans-1,4-Dichloro-2-buten	53	9.959	9.959	0.000	91	5255	5.00	4.70	
106 N-Propylbenzene	91	10.016	10.016	0.000	100	71027	5.00	5.03	
107 2-Chlorotoluene	91	10.095	10.095	0.000	97	48573	5.00	5.01	
108 4-Ethyltoluene	105	10.216	10.216	0.000	99	61384	5.00	4.85	
109 4-Chlorotoluene	91	10.281	10.281	0.000	95	45033	5.00	4.61	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	93	47875	5.00	4.74	
111 Butyl Methacrylate	87	10.617	10.617	0.000	90	18440	5.00	4.78	
112 tert-Butylbenzene	119	10.853	10.853	0.000	95	47110	5.00	4.92	
113 1,2,4-Trimethylbenzene	105	10.938	10.938	0.000	97	45456	5.00	4.65	
114 sec-Butylbenzene	105	11.210	11.210	0.000	98	62462	5.00	4.89	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	96	34876	5.00	4.69	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	95	265858	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.439	11.439	0.000	91	37290	5.00	4.80	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	96	52502	5.00	4.78	
119 1,2,3-Trimethylbenzene	105	11.553	11.553	0.000	98	47045	5.00	4.73	
120 Benzyl chloride	126	11.661	11.661	0.000	99	7992	5.00	4.69	
121 2,3-Dihydroindene	117	11.789	11.789	0.000	95	61556	5.00	5.04	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	97	35415	5.00	4.89	
123 p-Diethylbenzene	119	11.968	11.968	0.000	94	25948	5.00	4.68	
124 n-Butylbenzene	92	11.997	11.997	0.000	97	19888	5.00	4.45	
125 1,2-Dibromo-3-Chloropropan	75	12.797	12.797	0.000	92	4147	5.00	4.84	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	97	28173	5.00	4.46	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	97	17318	5.00	4.47	
128 1,2,4-Trichlorobenzene	180	13.577	13.577	0.000	93	14018	5.00	4.12	
129 Hexachlorobutadiene	225	13.748	13.748	0.000	93	8316	5.00	4.36	
130 Naphthalene	128	13.770	13.770	0.000	99	31143	5.00	4.31	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	96	13707	5.00	4.35	
S 132 1,2-Dichloroethene, Total	100				0		10.0	9.21	
S 133 Xylenes, Total	100				0		10.0	9.74	
S 134 Total BTEX	1				0		25.0	24.1	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00174	Amount Added: 1.00	Units: uL	
ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
Ethanol mix_00015	Amount Added: 1.00	Units: uL	
MIX 2 Hi_00070	Amount Added: 1.00	Units: uL	
MIX I Hi_00094	Amount Added: 1.00	Units: uL	
GAS Hi_00256	Amount Added: 1.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39395.D

Injection Date: 24-May-2018 14:48:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: STD5

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

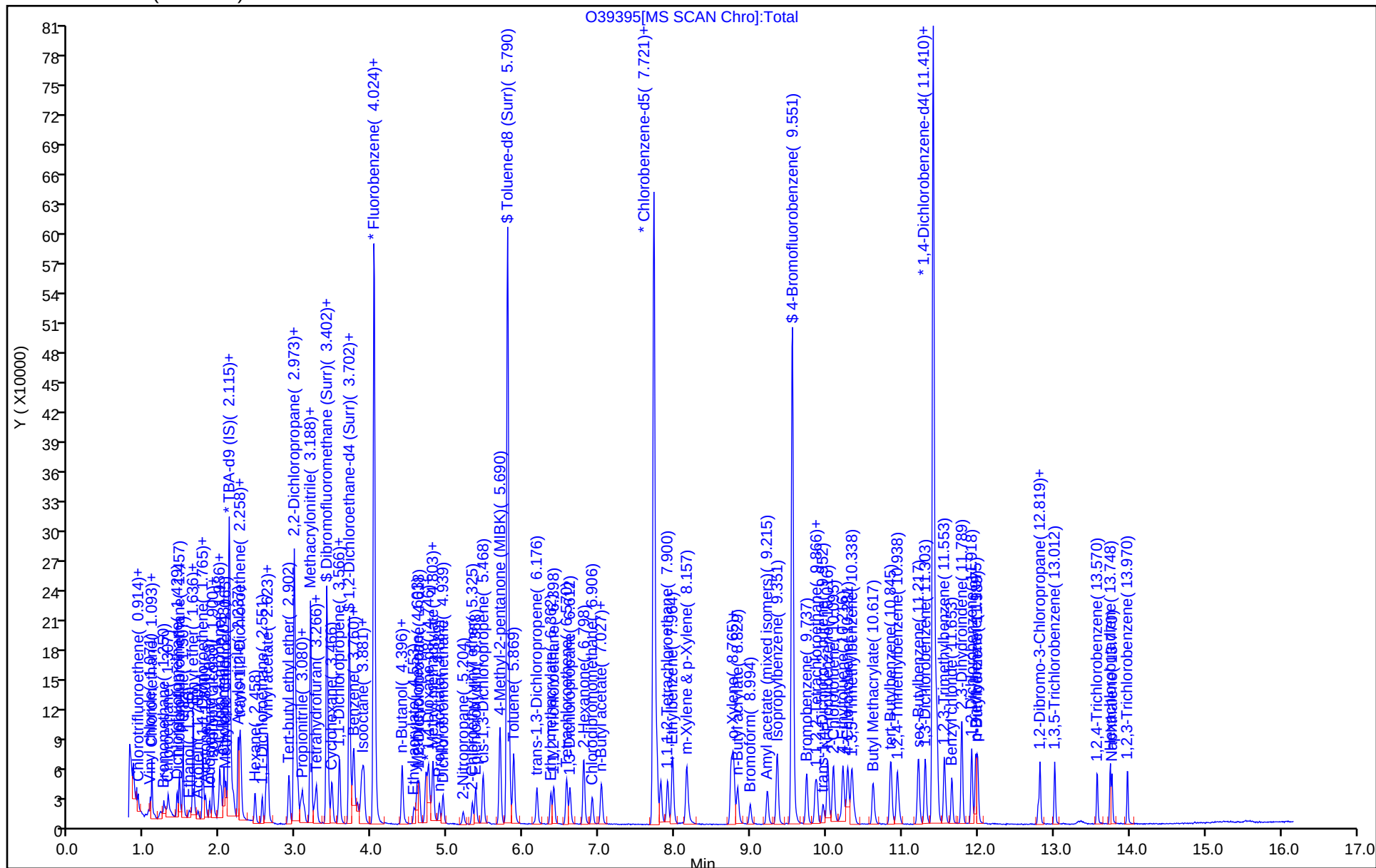
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39395.D

Injection Date: 24-May-2018 14:48:30

Instrument ID: CVOAMS12

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#:

5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

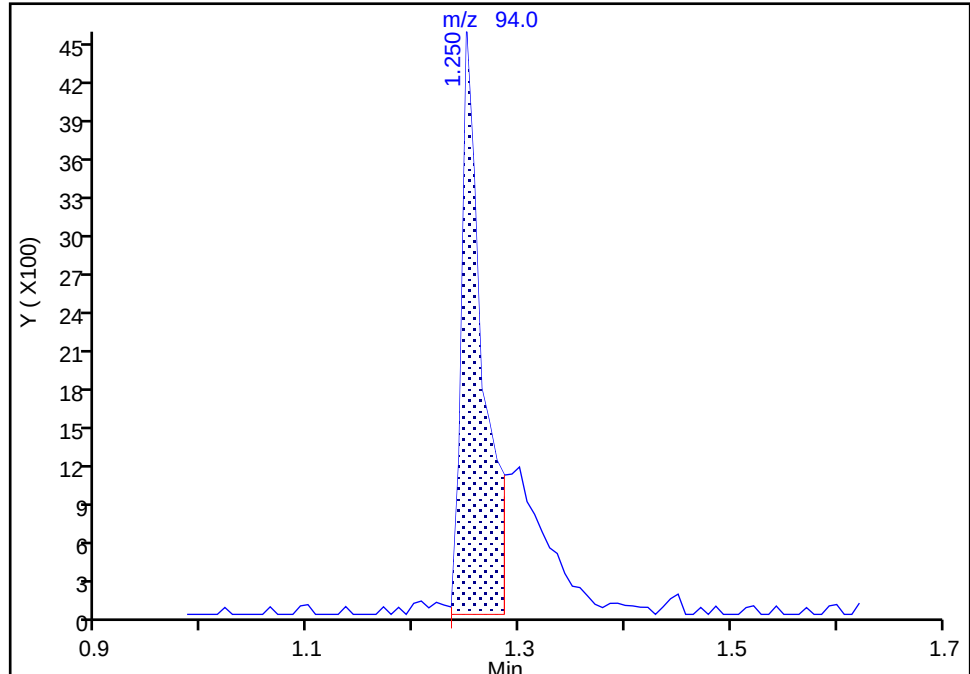
Detector: MS SCAN

6 Bromomethane, CAS: 74-83-9

Signal: 1

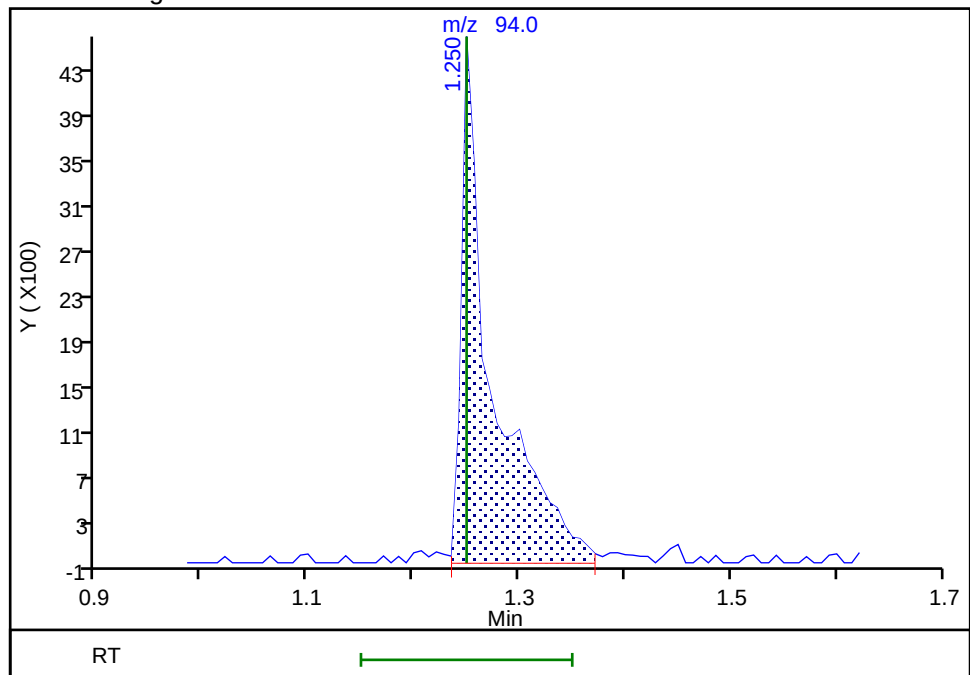
RT: 1.25
Area: 6367
Amount: 3.045464
Amount Units: ug/l

Processing Integration Results



RT: 1.25
Area: 9197
Amount: 6.211967
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:34:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39395.D

Injection Date: 24-May-2018 14:48:30

Instrument ID: CVOAMS12

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

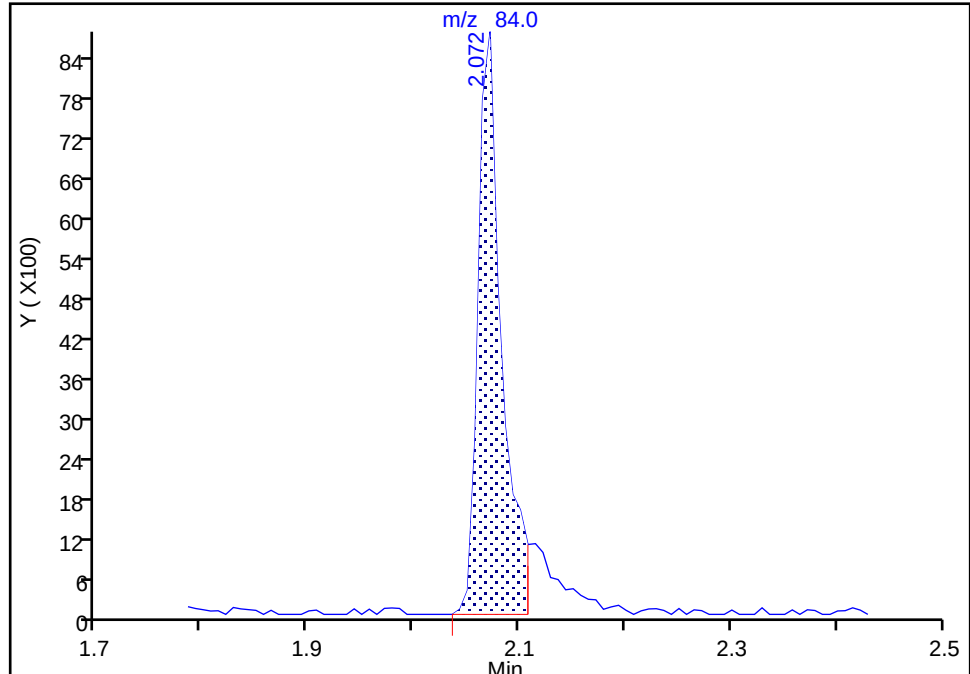
Detector: MS SCAN

26 Methylene Chloride, CAS: 75-09-2

Signal: 1

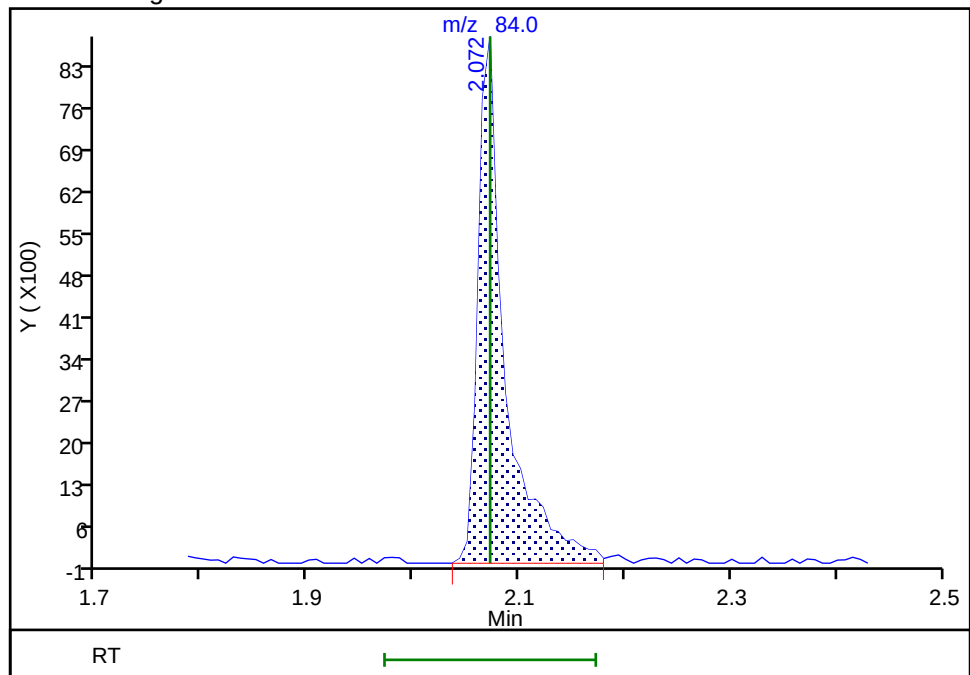
RT: 2.07
Area: 13610
Amount: 4.436223
Amount Units: ug/l

Processing Integration Results



RT: 2.07
Area: 15602
Amount: 4.773682
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:40:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39395.D

Injection Date: 24-May-2018 14:48:30

Instrument ID: CVOAMS12

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#: 5

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

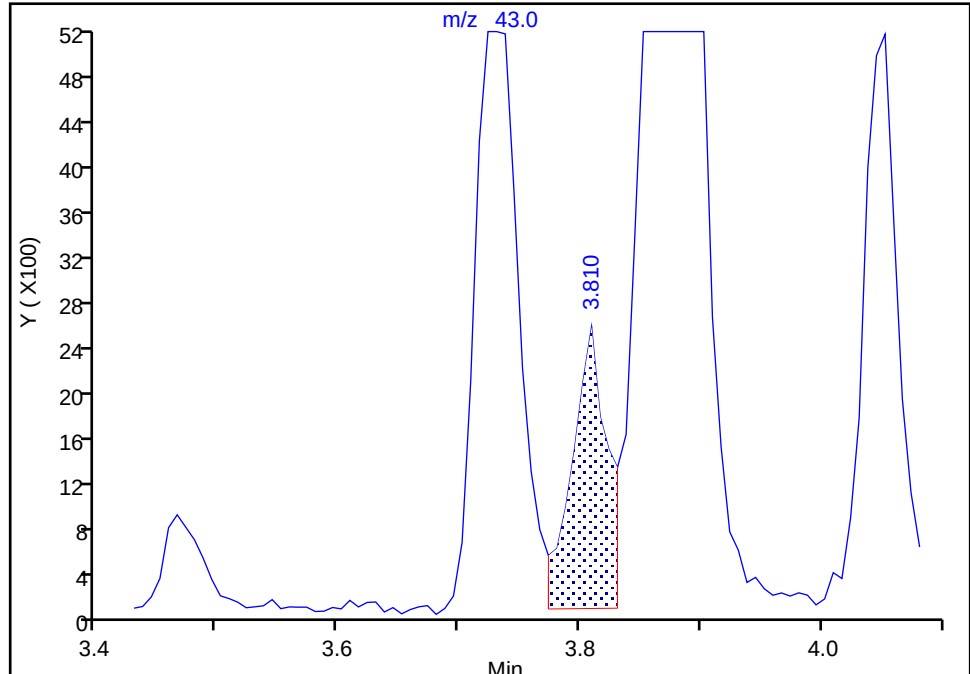
Detector: MS SCAN

55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

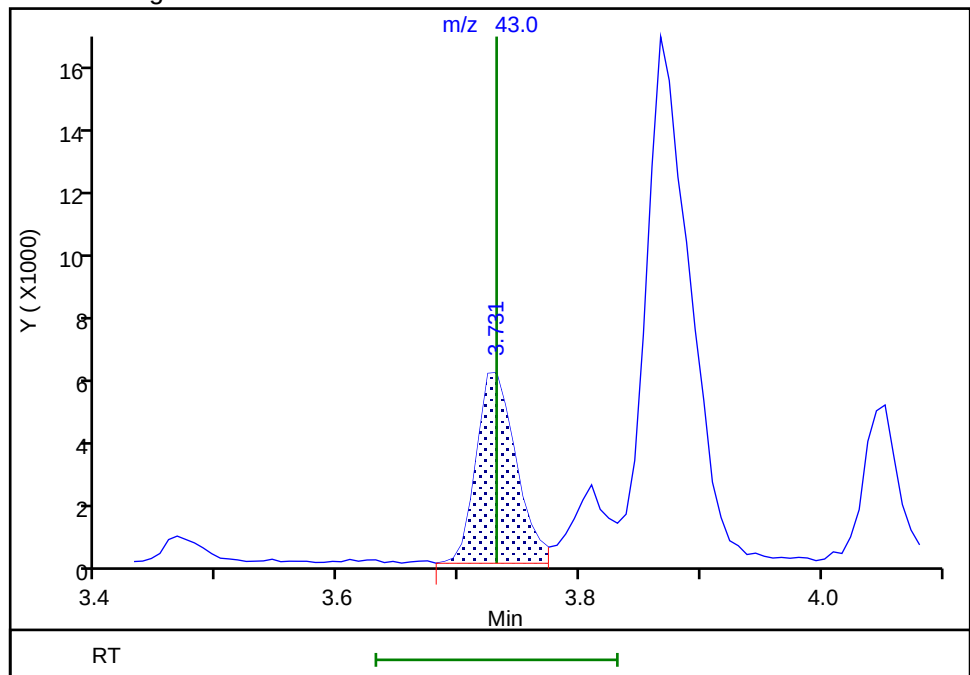
RT: 3.81
Area: 5139
Amount: 46.695126
Amount Units: ug/l

Processing Integration Results



RT: 3.73
Area: 13983
Amount: 105.8534
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 15:14:27

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39395.D

Injection Date: 24-May-2018 14:48:30

Instrument ID: CVOAMS12

Lims ID: STD5

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#:

5

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

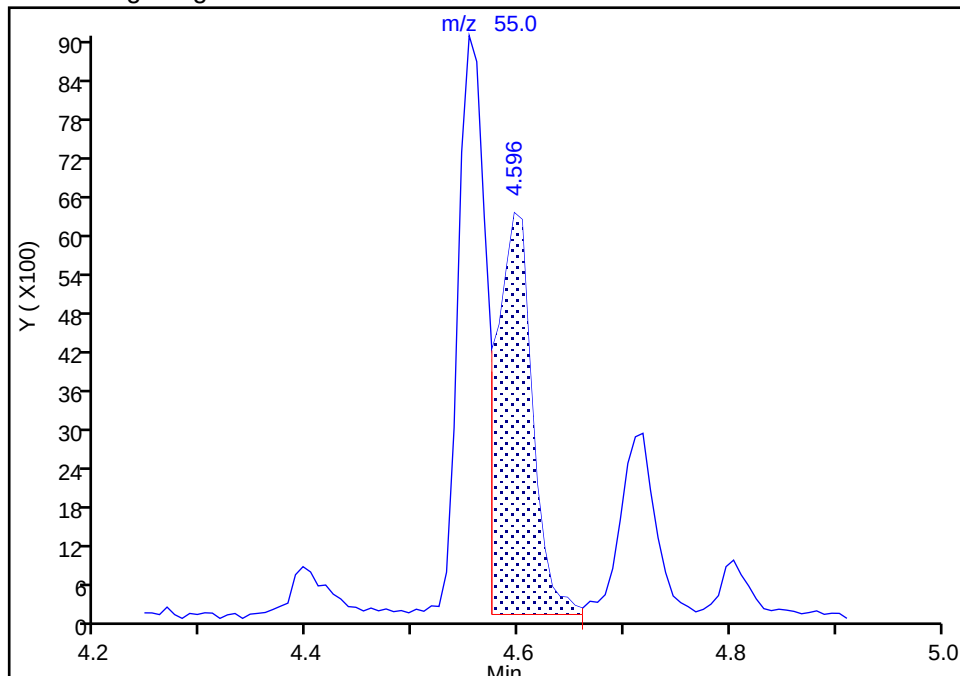
MS SCAN

65 Ethyl acrylate, CAS: 140-88-5

Signal: 1

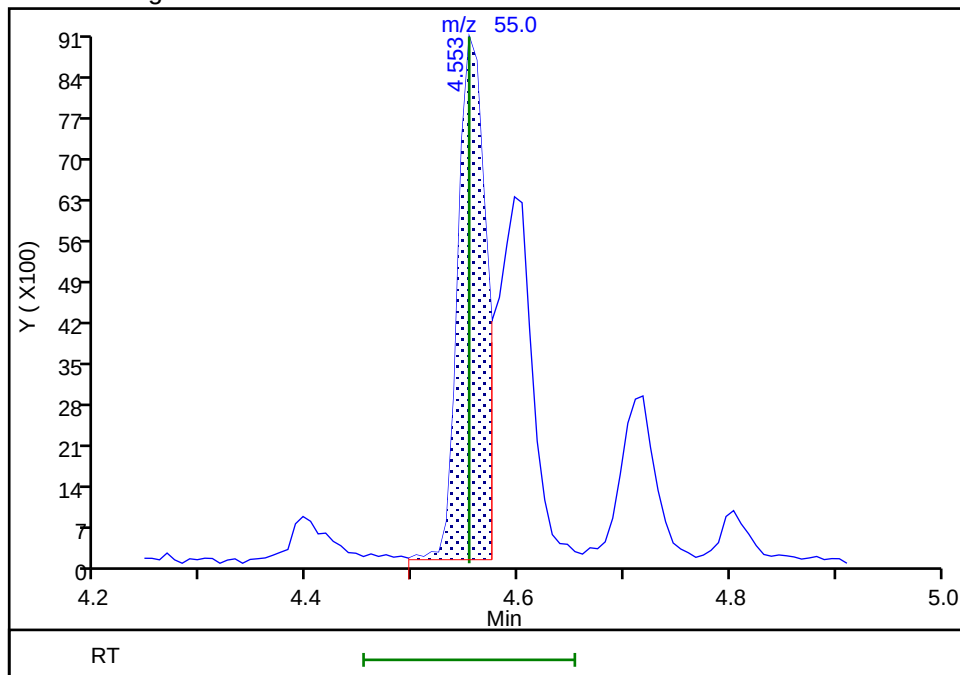
RT: 4.60
Area: 14927
Amount: 4.629332
Amount Units: ug/l

Processing Integration Results



RT: 4.55
Area: 16808
Amount: 4.623286
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:41:58

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39396.D
 Lims ID: STD20
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 24-May-2018 15:17:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD20
 Misc. Info.: 460-0072608-006
 Operator ID: Instrument ID: CVOAMS12
 Sublist: chrom-8260W_12*sub10
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 27-May-2018 12:13:33 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: pakanatir

Date: 25-May-2018 13:02:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	87	30857	20.0	19.5	M
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	99	60526	20.0	18.2	
4 Vinyl chloride	62	1.071	1.071	0.000	97	55368	20.0	19.4	
5 Butadiene	54	1.093	1.093	0.000	97	46720	20.0	18.4	
3 Chloromethane	50	1.093	1.093	0.000	99	73082	20.0	19.8	
6 Bromomethane	94	1.250	1.250	0.000	98	26531	20.0	18.9	
7 Chloroethane	64	1.307	1.307	0.000	99	30822	20.0	18.5	
8 Dichlorofluoromethane	67	1.422	1.422	0.000	98	106473	20.0	21.0	
9 Trichlorofluoromethane	101	1.457	1.457	0.000	99	86623	20.0	19.6	
10 Pentane	72	1.500	1.500	0.000	96	16928	40.0	40.6	
11 Ethanol	46	1.600	1.600	0.000	99	14281	800.0	807.2	
13 Ethyl ether	59	1.636	1.636	0.000	94	49254	20.0	22.8	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	91	48665	20.0	20.4	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	97	43110	20.0	20.8	
15 Acrolein	56	1.708	1.708	0.000	96	10801	40.0	38.1	
16 1,1-Dichloroethene	96	1.765	1.765	0.000	98	51684	20.0	20.3	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	95	48995	20.0	19.5	
18 Acetone	58	1.808	1.808	0.000	86	27809	100.0	94.2	
19 Iodomethane	127	1.858	1.858	0.000	98	38906	20.0	18.1	
20 Carbon disulfide	76	1.893	1.893	0.000	100	168098	20.0	22.1	
21 Isopropyl alcohol	45	1.908	1.908	0.000	98	45447	200.0	213.6	
22 Acetonitrile	38	1.986	1.986	0.000	79	22456	200.0	201.8	
23 3-Chloro-1-propene	39	1.986	1.986	0.000	90	75329	20.0	22.0	
24 Methyl acetate	74	2.015	2.015	0.000	99	24053	40.0	41.7	
25 Cyclopentene	67	2.044	2.044	0.000	96	110955	20.0	20.2	
26 Methylene Chloride	84	2.072	2.072	0.000	87	66480	20.0	21.2	
* 27 TBA-d9 (IS)	65	2.122	2.122	0.000	0	341429	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.172	2.172	0.000	99	83229	200.0	203.7	
29 Acrylonitrile	53	2.237	2.237	0.000	94	230989	200.0	224.2	
30 trans-1,2-Dichloroethene	96	2.251	2.251	0.000	93	60308	20.0	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	96	197555	20.0	22.5	
32 Hexane	57	2.458	2.458	0.000	92	56014	20.0	20.4	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	100	86688	20.0	21.8	
34 Vinyl acetate	86	2.601	2.601	0.000	99	24981	40.0	46.5	
36 Isopropyl ether	45	2.623	2.623	0.000	84	149068	20.0	21.9	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	92	46602	20.0	20.8	
37 Tert-butyl ethyl ether	59	2.902	2.902	0.000	91	158084	20.0	22.9	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	264285	250.0	250.0	
39 2,2-Dichloropropane	97	2.995	2.995	0.000	84	17846	20.0	19.7	
40 cis-1,2-Dichloroethene	96	2.995	2.995	0.000	96	60258	20.0	20.3	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	99	37890	100.0	105.9	
42 Propionitrile	52	3.059	3.059	0.000	94	17732	200.0	216.6	
43 Ethyl acetate	70	3.080	3.080	0.000	100	13481	40.0	41.2	
44 Methyl acrylate	55	3.109	3.109	0.000	99	55743	20.0	21.1	
46 Chlorobromomethane	128	3.188	3.188	0.000	48	34584	20.0	21.6	
45 Methacrylonitrile	67	3.188	3.188	0.000	89	255875	200.0	222.0	
47 Tetrahydrofuran	42	3.245	3.245	0.000	90	33360	40.0	42.5	
48 Chloroform	83	3.266	3.266	0.000	98	93997	20.0	21.9	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	97	117852	50.0	51.6	
50 1,1,1-Trichloroethane	97	3.424	3.424	0.000	98	78356	20.0	20.4	
51 Cyclohexane	84	3.474	3.474	0.000	89	65378	20.0	19.5	
52 1,1-Dichloropropene	75	3.567	3.567	0.000	92	65730	20.0	20.3	
53 Carbon tetrachloride	117	3.567	3.567	0.000	95	67222	20.0	19.6	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	127881	50.0	51.6	
55 Isobutyl alcohol	43	3.731	3.731	0.000	99	64881	500.0	522.2	a
56 Benzene	78	3.753	3.753	0.000	95	203267	20.0	21.6	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	78692	20.0	21.9	
58 Isooctane	57	3.860	3.860	0.000	98	112357	20.0	20.1	
59 Isopropyl acetate	61	3.867	3.867	0.000	98	22415	20.0	21.4	
60 Tert-amyl methyl ether	73	3.888	3.888	0.000	91	173183	20.0	21.7	
* 61 Fluorobenzene	96	4.024	4.024	0.000	99	463057	50.0	50.0	
62 n-Heptane	43	4.053	4.053	0.000	90	50193	20.0	20.4	
64 Trichloroethene	95	4.396	4.396	0.000	96	56566	20.0	20.3	
63 n-Butanol	56	4.403	4.403	0.000	86	47104	500.0	525.1	
65 Ethyl acrylate	55	4.553	4.553	0.000	99	75220	20.0	21.6	a
66 Methylcyclohexane	83	4.596	4.596	0.000	94	79821	20.0	20.2	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	91	53215	20.0	21.9	
69 Dibromomethane	93	4.746	4.746	0.000	92	40198	20.0	21.6	
* 68 1,4-Dioxane-d8	96	4.754	4.754	0.000	0	38948	1000.0	1000.0	
71 Methyl methacrylate	100	4.804	4.804	0.000	84	38721	40.0	42.9	
70 1,4-Dioxane	88	4.811	4.811	0.000	30	19315	400.0	442.5	
72 n-Propyl acetate	43	4.889	4.889	0.000	98	79353	20.0	22.2	
73 Dichlorobromomethane	83	4.939	4.939	0.000	98	77020	20.0	21.9	
74 2-Nitropropane	41	5.204	5.204	0.000	99	30692	40.0	41.9	
75 2-Chloroethyl vinyl ether	63	5.326	5.326	0.000	93	42799	20.0	21.2	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	137509	400.0	446.8	
77 cis-1,3-Dichloropropene	75	5.469	5.469	0.000	95	90905	20.0	22.4	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	96	288490	100.0	112.2	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	99	478341	50.0	52.3	
80 Toluene	91	5.869	5.869	0.000	94	237744	20.0	20.9	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	98	88321	20.0	22.5	
82 Ethyl methacrylate	69	6.362	6.362	0.000	87	80463	20.0	22.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.398	6.398	0.000	92	46295	20.0	22.1	
84 Tetrachloroethene	166	6.570	6.570	0.000	98	66906	20.0	20.8	
85 1,3-Dichloropropane	76	6.613	6.613	0.000	92	92930	20.0	22.8	
86 2-Hexanone	43	6.791	6.791	0.000	95	207352	100.0	109.1	
87 Chlorodibromomethane	129	6.906	6.906	0.000	98	69242	20.0	21.6	
88 n-Butyl acetate	43	7.020	7.020	0.000	98	88794	20.0	21.9	
89 Ethylene Dibromide	107	7.034	7.034	0.000	99	64346	20.0	22.1	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	85	421681	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	97	172494	20.0	21.0	
92 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	94	63358	20.0	21.4	
93 Ethylbenzene	106	7.971	7.971	0.000	98	89342	20.0	21.1	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	113935	20.0	21.7	
95 o-Xylene	106	8.743	8.743	0.000	95	111652	20.0	21.4	
96 Styrene	104	8.772	8.772	0.000	96	197182	20.0	21.5	
97 n-Butyl acrylate	73	8.829	8.829	0.000	97	48689	20.0	22.3	
98 Bromoform	173	8.994	8.994	0.000	97	53353	20.0	21.1	
99 Amyl acetate (mixed isomer	43	9.215	9.215	0.000	92	105241	20.0	22.5	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	272669	20.0	21.4	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	202752	50.0	52.0	
102 Bromobenzene	156	9.737	9.737	0.000	90	87659	20.0	21.6	
103 1,1,2,2-Tetrachloroethane	83	9.852	9.852	0.000	97	82906	20.0	22.1	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	96	27314	20.0	21.5	
105 trans-1,4-Dichloro-2-buten	53	9.952	9.952	0.000	93	23725	20.0	21.1	
106 N-Propylbenzene	91	10.016	10.016	0.000	100	299365	20.0	21.1	
107 2-Chlorotoluene	91	10.088	10.088	0.000	97	201611	20.0	20.7	
108 4-Ethyltoluene	105	10.216	10.216	0.000	99	266590	20.0	21.0	
109 4-Chlorotoluene	91	10.281	10.281	0.000	96	205555	20.0	20.9	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	93	212579	20.0	21.0	
111 Butyl Methacrylate	87	10.617	10.617	0.000	90	85794	20.0	22.1	
112 tert-Butylbenzene	119	10.853	10.853	0.000	95	200870	20.0	20.9	
113 1,2,4-Trimethylbenzene	105	10.939	10.939	0.000	97	207364	20.0	21.1	
114 sec-Butylbenzene	105	11.210	11.210	0.000	99	272196	20.0	21.2	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	156406	20.0	20.9	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	94	267117	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.439	11.439	0.000	96	162168	20.0	20.8	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	97	236637	20.0	21.4	
119 1,2,3-Trimethylbenzene	105	11.553	11.553	0.000	98	217488	20.0	21.8	
120 Benzyl chloride	126	11.654	11.654	0.000	99	36664	20.0	21.4	
121 2,3-Dihydroindene	117	11.782	11.782	0.000	94	269525	20.0	22.0	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	96	153214	20.0	21.1	
123 p-Diethylbenzene	119	11.968	11.968	0.000	93	119128	20.0	21.4	
124 n-Butylbenzene	92	11.997	11.997	0.000	97	95910	20.0	21.4	
125 1,2-Dibromo-3-Chloropropan	75	12.790	12.790	0.000	94	18371	20.0	21.3	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	97	136925	20.0	21.6	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	98	85460	20.0	22.0	
128 1,2,4-Trichlorobenzene	180	13.570	13.570	0.000	94	73368	20.0	21.5	
129 Hexachlorobutadiene	225	13.749	13.749	0.000	93	37099	20.0	19.3	
130 Naphthalene	128	13.770	13.770	0.000	99	157573	20.0	21.7	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	96	67820	20.0	21.4	
S 132 1,2-Dichloroethene, Total	100				0		40.0	41.5	
S 133 Xylenes, Total	100				0		40.0	43.1	
S 134 Total BTEX	1				0		100.0	106.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00174	Amount Added: 1.00	Units: uL	
ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
Ethanol mix_00015	Amount Added: 2.00	Units: uL	
MIX 2 Hi_00070	Amount Added: 2.00	Units: uL	
MIX I Hi_00094	Amount Added: 2.00	Units: uL	
GAS Hi_00256	Amount Added: 2.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

Operator ID:

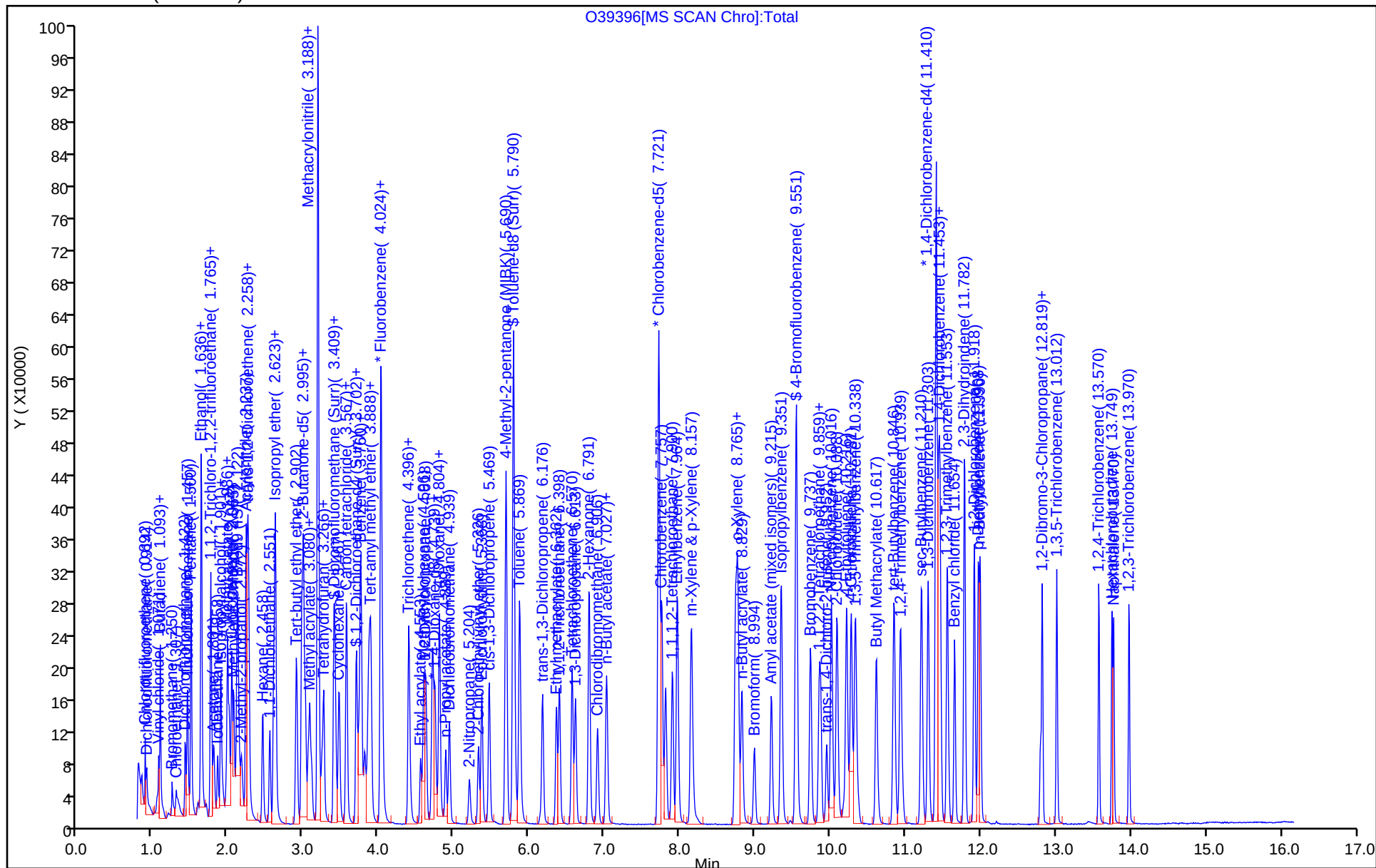
Worklist Smp#: 6

Client ID:

ALS Bottle#: 5

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39396.D

Injection Date: 24-May-2018 15:17:30

Instrument ID: CVOAMS12

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

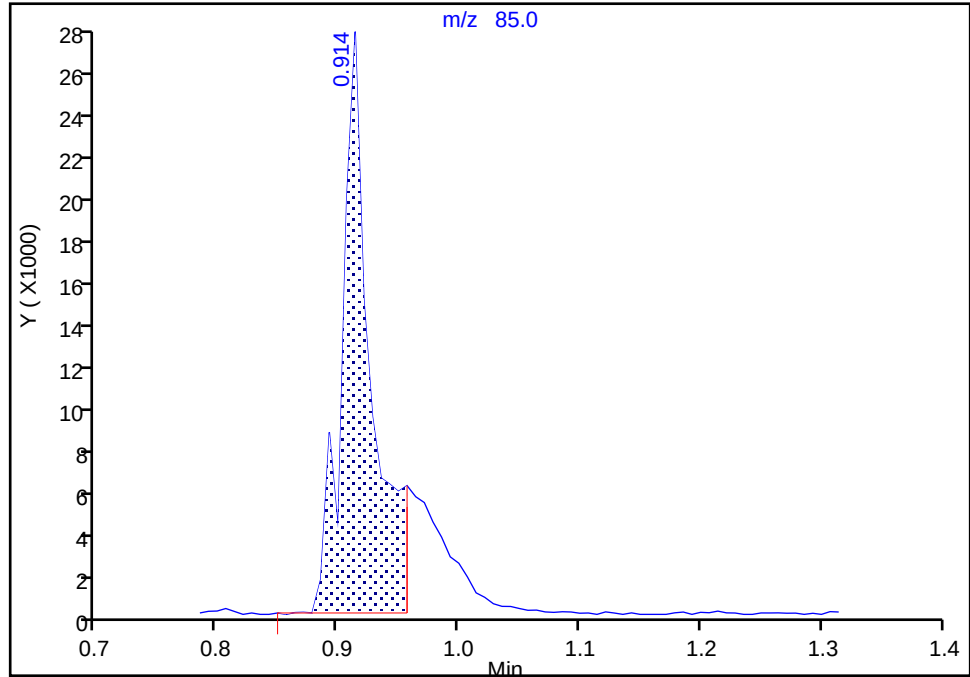
Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

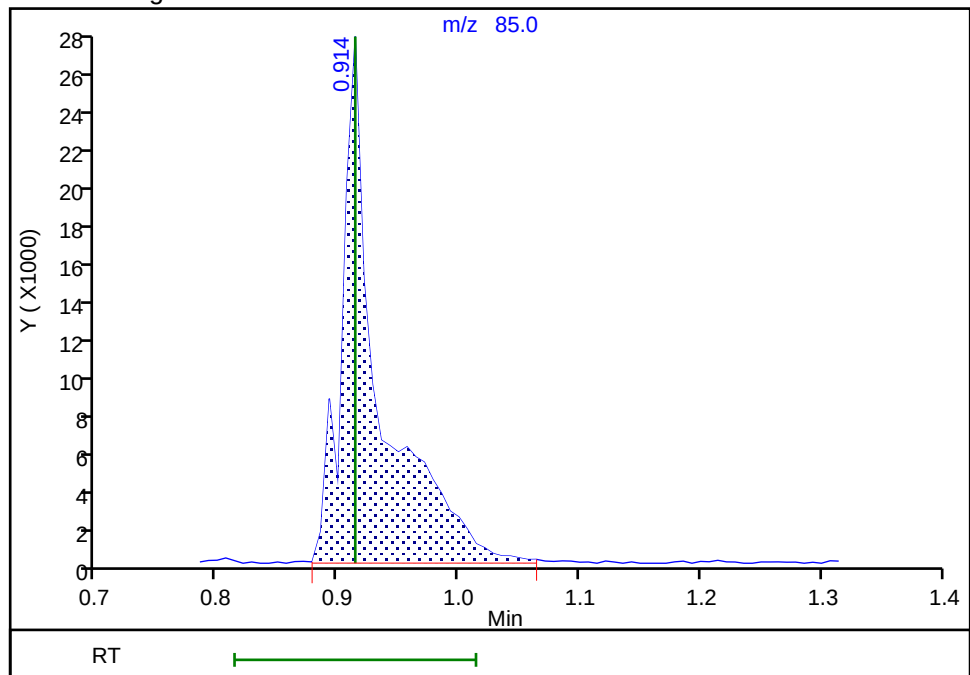
RT: 0.91
Area: 47457
Amount: 16.016289
Amount Units: ug/l

Processing Integration Results



RT: 0.91
Area: 60526
Amount: 18.195553
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 16:15:35

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39396.D

Injection Date: 24-May-2018 15:17:30

Instrument ID: CVOAMS12

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

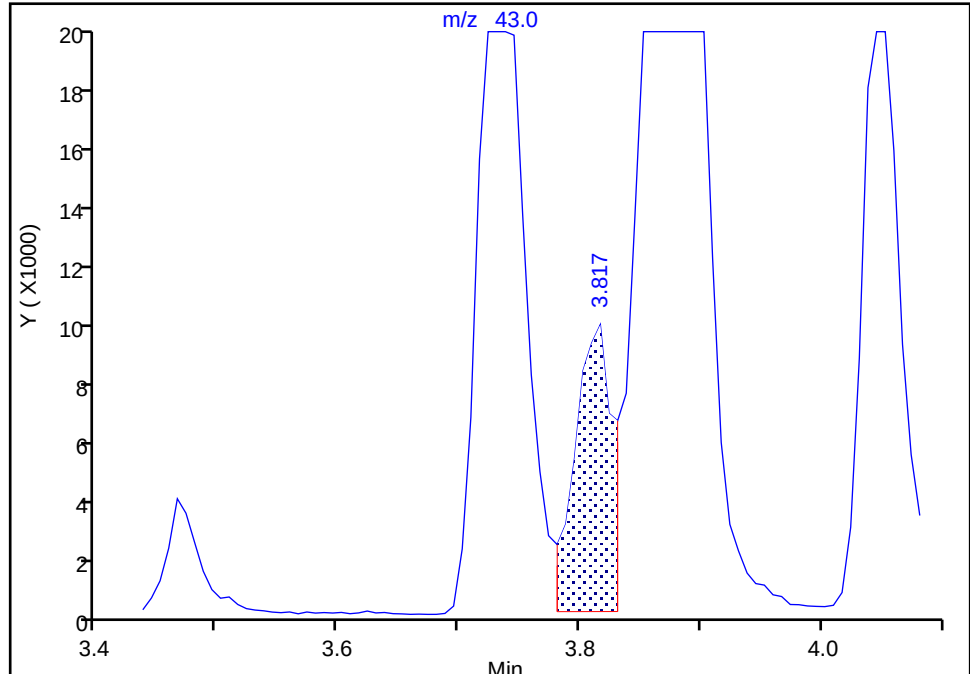
Detector: MS SCAN

55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

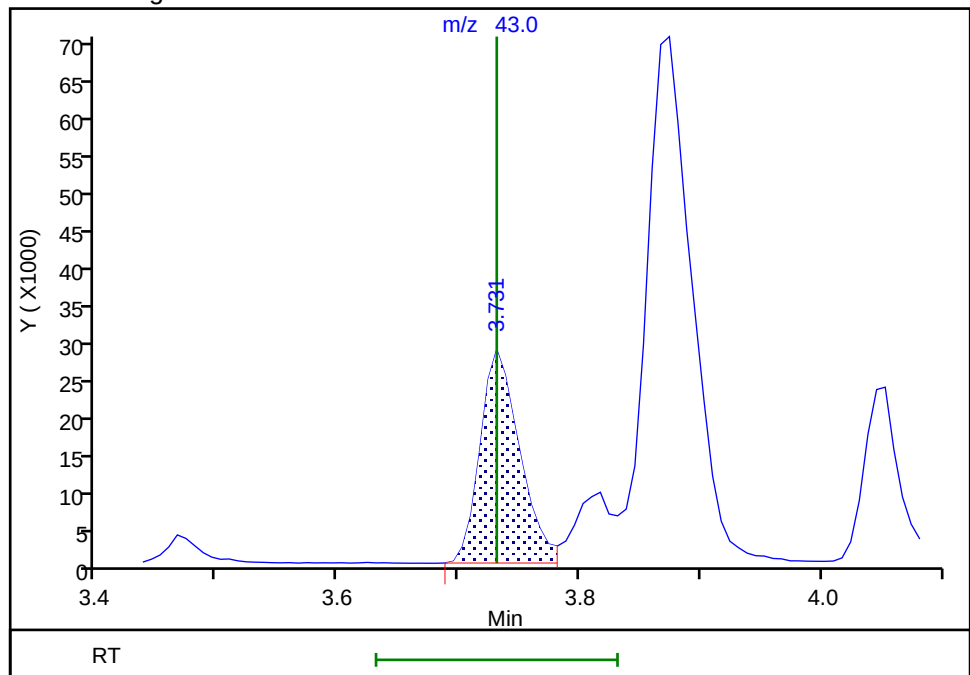
RT: 3.82
Area: 20995
Amount: 275.2146
Amount Units: ug/l

Processing Integration Results



RT: 3.73
Area: 64881
Amount: 522.1937
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 16:15:57

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39396.D

Injection Date: 24-May-2018 15:17:30

Instrument ID: CVOAMS12

Lims ID: STD20

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

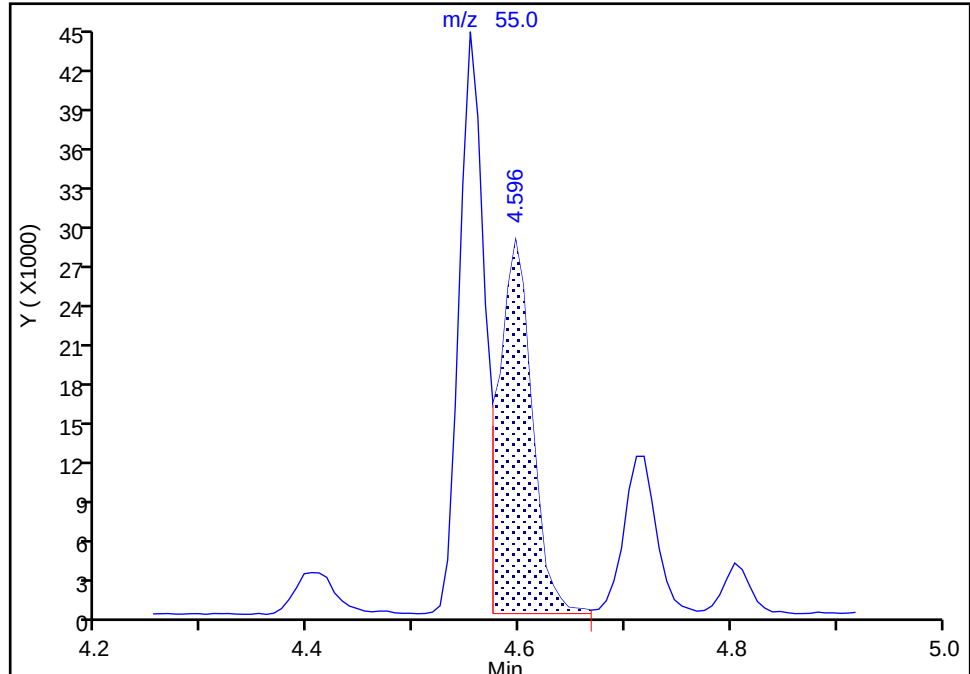
Detector: MS SCAN

65 Ethyl acrylate, CAS: 140-88-5

Signal: 1

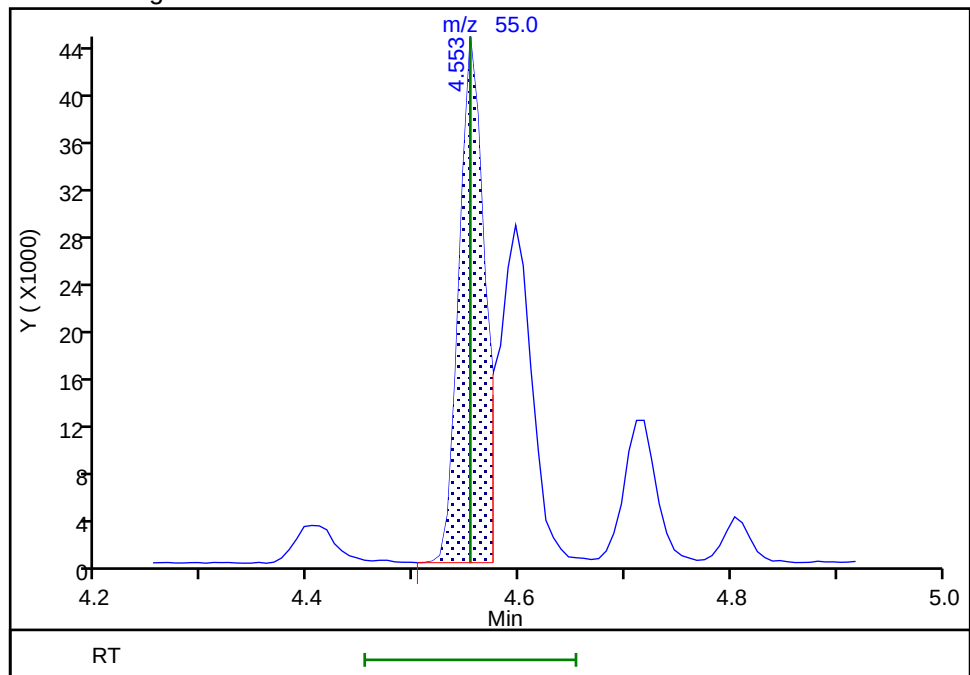
RT: 4.60
Area: 63104
Amount: 21.084126
Amount Units: ug/l

Processing Integration Results



RT: 4.55
Area: 75220
Amount: 21.563137
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:41:30

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39397.D
 Lims ID: STD50
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 24-May-2018 15:46:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD50
 Misc. Info.: 460-0072608-007
 Operator ID: Instrument ID: CVOAMS12
 Sublist: chrom-8260W_12*sub10
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 27-May-2018 12:13:55 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: martineze

Date: 24-May-2018 16:20:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	87	90240	50.0	53.1	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	99	187677	50.0	50.3	
4 Vinyl chloride	62	1.071	1.071	0.000	98	158491	50.0	49.5	
3 Chloromethane	50	1.092	1.093	-0.001	98	196356	50.0	47.3	M
5 Butadiene	54	1.092	1.093	-0.001	97	137187	50.0	48.2	
6 Bromomethane	94	1.250	1.250	0.000	98	72560	50.0	48.4	M
7 Chloroethane	64	1.307	1.307	0.000	99	87603	50.0	47.4	
8 Dichlorofluoromethane	67	1.429	1.422	0.007	98	279939	50.0	49.2	
9 Trichlorofluoromethane	101	1.457	1.457	0.000	99	252554	50.0	50.8	
10 Pentane	72	1.507	1.500	0.007	94	48391	100.0	103.4	
11 Ethanol	46	1.593	1.600	-0.007	97	33544	2000.0	1824.1	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	91	133482	50.0	49.9	
13 Ethyl ether	59	1.636	1.636	0.000	93	122456	50.0	50.5	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	97	110881	50.0	47.7	
15 Acrolein	56	1.707	1.708	-0.001	98	27121	100.0	90.9	
16 1,1-Dichloroethene	96	1.765	1.765	0.000	98	138255	50.0	48.4	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	94	142758	50.0	50.5	
18 Acetone	58	1.800	1.808	-0.008	87	67930	250.0	217.7	
19 Iodomethane	127	1.858	1.858	0.000	99	111264	50.0	46.2	
21 Isopropyl alcohol	45	1.908	1.908	0.000	98	107142	500.0	478.6	
20 Carbon disulfide	76	1.900	1.893	0.007	100	446376	50.0	52.3	
23 3-Chloro-1-propene	39	1.986	1.986	0.000	91	187539	50.0	48.9	
22 Acetonitrile	38	1.986	1.986	0.000	83	58011	500.0	495.5	
24 Methyl acetate	74	2.008	2.015	-0.007	98	60098	100.0	99.0	
25 Cyclopentene	67	2.043	2.044	-0.001	96	314228	50.0	51.0	
26 Methylene Chloride	84	2.072	2.072	0.000	88	171174	50.0	48.6	
* 27 TBA-d9 (IS)	65	2.115	2.122	-0.007	0	359176	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.172	2.172	0.000	98	197627	500.0	464.8	
29 Acrylonitrile	53	2.237	2.237	-0.001	94	557758	500.0	482.2	
30 trans-1,2-Dichloroethene	96	2.251	2.251	0.000	91	161710	50.0	50.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	96	500492	50.0	50.7	
32 Hexane	57	2.458	2.458	0.000	91	155112	50.0	50.3	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	100	215282	50.0	48.3	
34 Vinyl acetate	86	2.601	2.601	0.000	99	61404	100.0	106.8	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	93	128878	50.0	51.3	
36 Isopropyl ether	45	2.623	2.623	0.000	85	386458	50.0	50.7	
37 Tert-butyl ethyl ether	59	2.901	2.902	-0.001	91	401870	50.0	51.9	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	283127	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.994	2.995	-0.001	97	159571	50.0	47.9	
39 2,2-Dichloropropane	97	2.994	2.995	-0.001	83	47695	50.0	47.0	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	98	97943	250.0	255.5	
42 Propionitrile	52	3.059	3.059	0.000	94	41955	500.0	487.1	
43 Ethyl acetate	70	3.080	3.080	0.000	100	33692	100.0	96.1	
44 Methyl acrylate	55	3.109	3.109	0.000	99	141360	50.0	47.6	
45 Methacrylonitrile	67	3.195	3.188	0.007	87	655658	500.0	506.9	
46 Chlorobromomethane	128	3.195	3.188	0.007	49	92221	50.0	51.3	
47 Tetrahydrofuran	42	3.245	3.245	0.000	91	85670	100.0	101.9	
48 Chloroform	83	3.266	3.266	0.000	98	240570	50.0	50.0	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	97	123637	50.0	48.3	
50 1,1,1-Trichloroethane	97	3.423	3.424	-0.001	98	217345	50.0	50.3	
51 Cyclohexane	84	3.474	3.474	0.000	88	191943	50.0	51.0	
53 Carbon tetrachloride	117	3.566	3.567	-0.001	96	193529	50.0	50.3	
52 1,1-Dichloropropene	75	3.566	3.567	-0.001	94	181310	50.0	49.8	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	130396	50.0	46.9	
55 Isobutyl alcohol	43	3.731	3.731	0.000	98	169721	1250.0	1298.5	a
56 Benzene	78	3.760	3.753	0.007	95	532531	50.0	49.7	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	202847	50.0	50.2	
58 Isooctane	57	3.860	3.860	0.000	98	330057	50.0	52.7	
59 Isopropyl acetate	61	3.867	3.867	0.000	98	57845	50.0	49.2	
60 Tert-amyl methyl ether	73	3.888	3.888	0.000	91	447162	50.0	49.9	
* 61 Fluorobenzene	96	4.024	4.024	0.000	99	519731	50.0	50.0	
62 n-Heptane	43	4.046	4.053	-0.007	89	139750	50.0	50.7	
63 n-Butanol	56	4.403	4.403	0.000	88	120924	1250.0	1281.5	
64 Trichloroethene	95	4.396	4.396	0.000	96	150551	50.0	48.2	
65 Ethyl acrylate	55	4.553	4.553	0.000	99	194188	50.0	49.6	a
66 Methylcyclohexane	83	4.596	4.596	0.000	94	228418	50.0	51.6	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	91	136313	50.0	50.1	
* 68 1,4-Dioxane-d8	96	4.753	4.754	-0.001	0	43292	1000.0	1000.0	
69 Dibromomethane	93	4.746	4.746	0.000	91	102340	50.0	48.9	
70 1,4-Dioxane	88	4.803	4.811	-0.008	31	49185	1000.0	1013.6	
71 Methyl methacrylate	100	4.803	4.804	-0.001	83	103017	100.0	101.6	
72 n-Propyl acetate	43	4.889	4.889	0.000	97	205265	50.0	51.2	
73 Dichlorobromomethane	83	4.939	4.939	0.000	99	200909	50.0	50.8	
74 2-Nitropropane	41	5.204	5.204	0.000	98	81027	100.0	98.5	
75 2-Chloroethyl vinyl ether	63	5.325	5.326	-0.001	94	109840	50.0	48.4	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	339624	1000.0	1030.1	
77 cis-1,3-Dichloropropene	75	5.468	5.469	-0.001	94	234388	50.0	50.7	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	94	709664	250.0	257.7	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	99	506686	50.0	48.6	
80 Toluene	91	5.869	5.869	0.000	94	632410	50.0	48.8	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	98	228911	50.0	51.2	
82 Ethyl methacrylate	69	6.362	6.362	0.000	87	209328	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.398	6.398	0.000	92	119602	50.0	50.2	
84 Tetrachloroethene	166	6.570	6.570	0.000	98	185670	50.0	50.7	
85 1,3-Dichloropropane	76	6.612	6.613	-0.001	93	235201	50.0	50.8	
86 2-Hexanone	43	6.798	6.791	0.007	94	519458	250.0	255.1	
87 Chlorodibromomethane	129	6.906	6.906	0.000	98	186591	50.0	51.2	
88 n-Butyl acetate	43	7.020	7.020	0.000	98	232691	50.0	50.4	
89 Ethylene Dibromide	107	7.034	7.034	0.000	99	169671	50.0	51.2	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	84	480335	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	96	456680	50.0	48.7	
92 1,1,1,2-Tetrachloroethane	131	7.900	7.900	0.000	95	167304	50.0	49.6	
93 Ethylbenzene	106	7.971	7.971	0.000	97	243743	50.0	50.6	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	301902	50.0	50.4	
95 o-Xylene	106	8.743	8.743	0.000	95	301291	50.0	50.7	
96 Styrene	104	8.772	8.772	0.000	97	526662	50.0	50.4	
97 n-Butyl acrylate	73	8.829	8.829	0.000	98	132840	50.0	53.3	
98 Bromoform	173	8.993	8.994	-0.001	98	147380	50.0	51.2	
99 Amyl acetate (mixed isomer	43	9.215	9.215	0.000	92	277676	50.0	51.2	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	723301	50.0	49.9	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	97	223829	50.0	50.4	
102 Bromobenzene	156	9.737	9.737	0.000	88	235514	50.0	50.0	
103 1,1,2,2-Tetrachloroethane	83	9.852	9.852	0.000	96	211299	50.0	48.5	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	95	71674	50.0	48.7	
105 trans-1,4-Dichloro-2-buten	53	9.952	9.952	0.000	94	61277	50.0	47.0	
106 N-Propylbenzene	91	10.016	10.016	0.000	99	795413	50.0	48.3	
107 2-Chlorotoluene	91	10.087	10.088	-0.001	97	529368	50.0	46.9	
108 4-Ethyltoluene	105	10.216	10.216	0.000	98	717436	50.0	48.7	
109 4-Chlorotoluene	91	10.281	10.281	0.000	96	542424	50.0	47.6	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	94	577256	50.0	49.1	
111 Butyl Methacrylate	87	10.617	10.617	0.000	90	234675	50.0	52.2	
112 tert-Butylbenzene	119	10.853	10.853	0.000	95	544683	50.0	48.8	
113 1,2,4-Trimethylbenzene	105	10.938	10.939	0.000	97	564389	50.0	49.5	
114 sec-Butylbenzene	105	11.217	11.210	0.007	98	735079	50.0	49.3	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	96	420867	50.0	48.6	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	95	309836	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.439	11.439	0.000	95	439290	50.0	48.5	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	97	649021	50.0	50.7	
119 1,2,3-Trimethylbenzene	105	11.553	11.553	0.000	98	585908	50.0	50.6	
120 Benzyl chloride	126	11.653	11.654	-0.001	99	100918	50.0	50.8	
121 2,3-Dihydroindene	117	11.789	11.782	0.007	95	712156	50.0	50.1	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	96	415846	50.0	49.3	
123 p-Diethylbenzene	119	11.968	11.968	0.000	94	340508	50.0	52.6	
124 n-Butylbenzene	92	11.997	11.997	0.000	97	274184	50.0	52.7	
125 1,2-Dibromo-3-Chloropropan	75	12.790	12.790	0.000	94	48591	50.0	48.7	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	97	367142	50.0	49.9	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	98	244286	50.0	54.1	
128 1,2,4-Trichlorobenzene	180	13.570	13.570	0.000	94	215538	50.0	54.4	
129 Hexachlorobutadiene	225	13.748	13.749	-0.001	95	115138	50.0	51.8	
130 Naphthalene	128	13.770	13.770	0.000	99	434470	50.0	51.6	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	96	196038	50.0	53.3	
S 132 1,2-Dichloroethene, Total	100				0		100.0	98.6	
S 133 Xylenes, Total	100				0		100.0	101.1	
S 134 Total BTEX	1				0		250.0	250.2	

QC Flag Legend

Review Flags

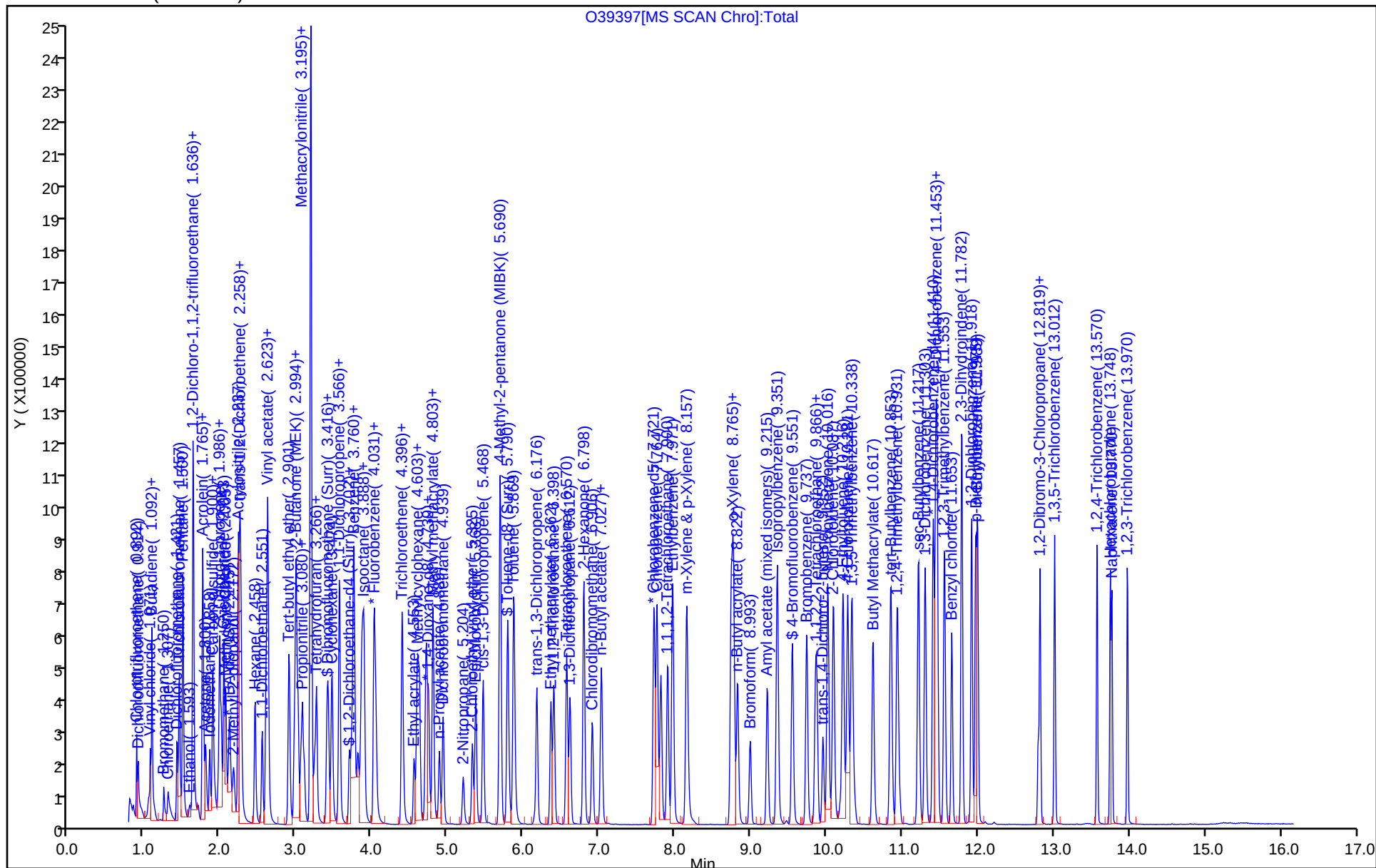
M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00174	Amount Added: 1.00	Units: uL	
ACROLEIN W_00077	Amount Added: 10.00	Units: uL	
Ethanol mix_00015	Amount Added: 5.00	Units: uL	
MIX 2 Hi_00070	Amount Added: 5.00	Units: uL	
MIX I Hi_00094	Amount Added: 5.00	Units: uL	
GAS Hi_00256	Amount Added: 5.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39397.D

Injection Date: 24-May-2018 15:46:30

Instrument ID: CVOAMS12

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

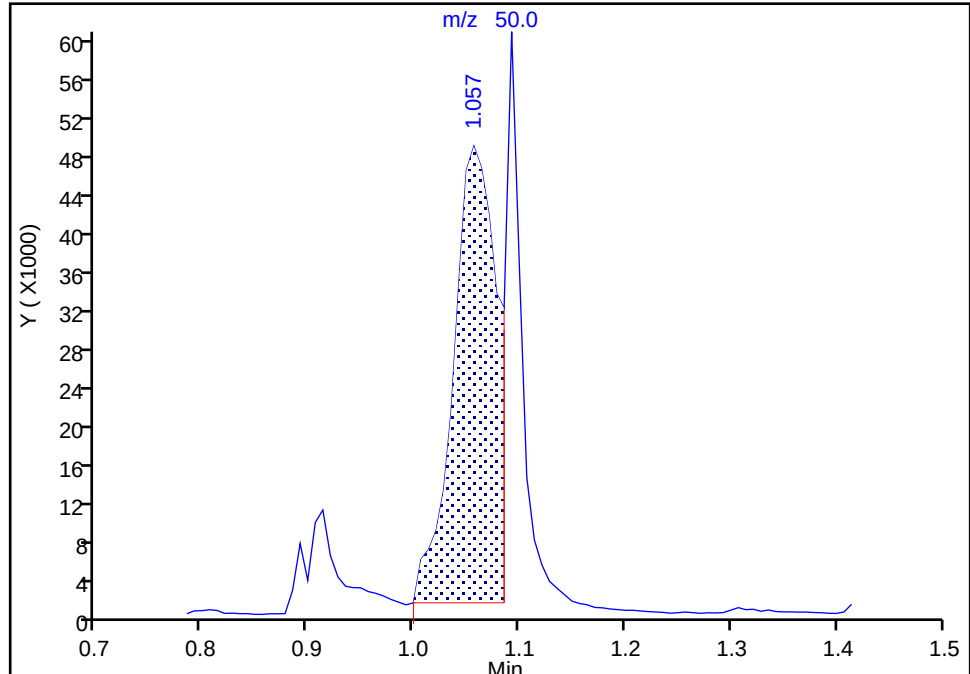
Detector: MS SCAN

3 Chloromethane, CAS: 74-87-3

Signal: 1

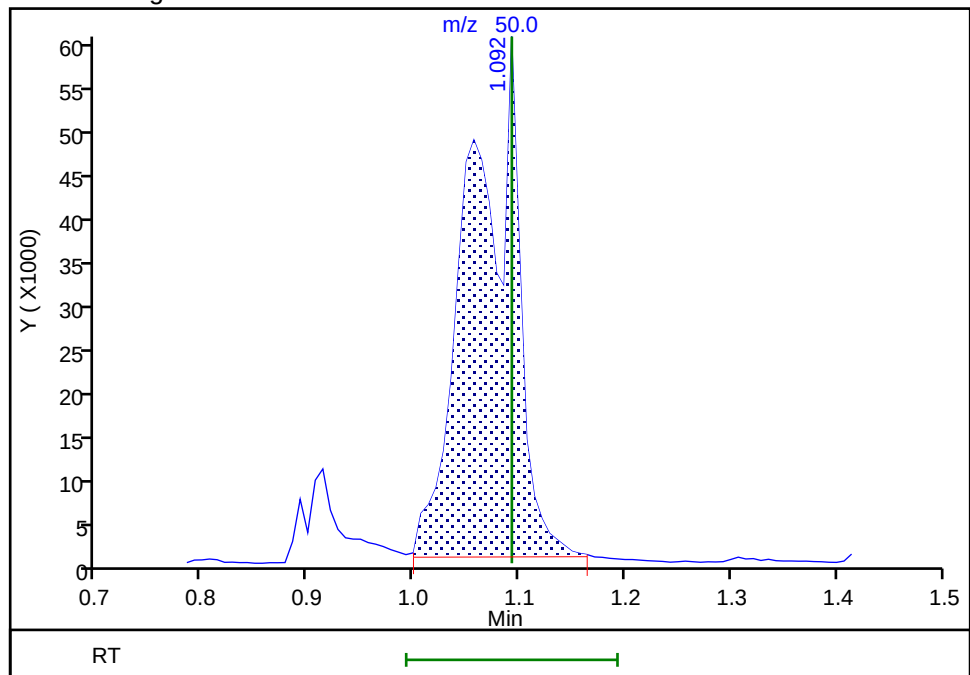
RT: 1.06
Area: 138712
Amount: 39.546948
Amount Units: ug/l

Processing Integration Results



RT: 1.09
Area: 196356
Amount: 47.320057
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 16:17:47

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39397.D

Injection Date: 24-May-2018 15:46:30

Instrument ID: CVOAMS12

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

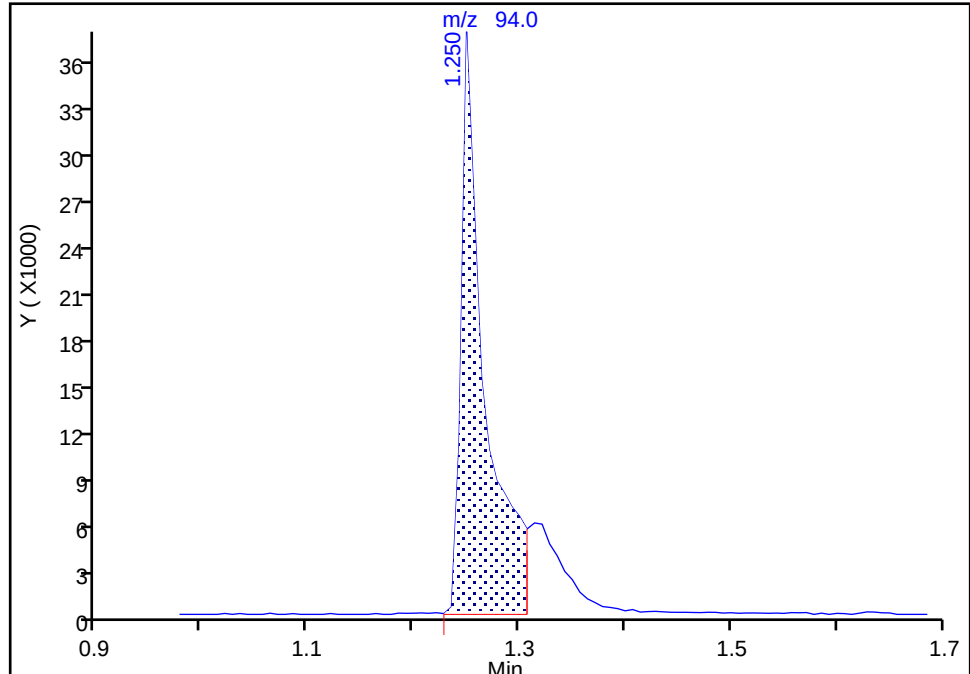
Detector: MS SCAN

6 Bromomethane, CAS: 74-83-9

Signal: 1

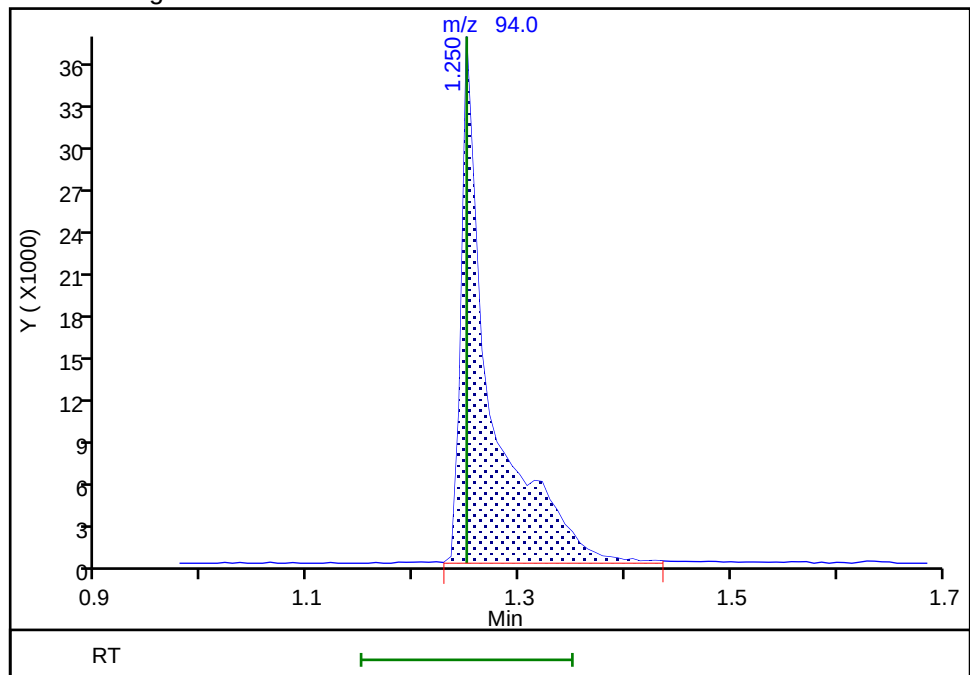
RT: 1.25
Area: 59254
Amount: 47.928786
Amount Units: ug/l

Processing Integration Results



RT: 1.25
Area: 72560
Amount: 48.418658
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 16:37:22

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39397.D

Injection Date: 24-May-2018 15:46:30

Instrument ID: CVOAMS12

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

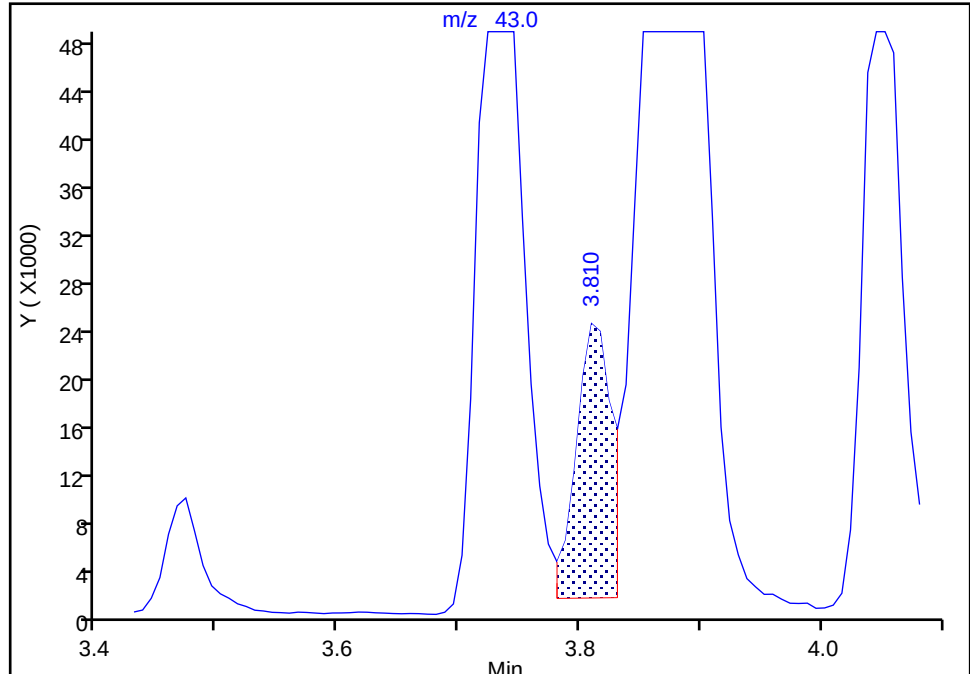
Detector: MS SCAN

55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

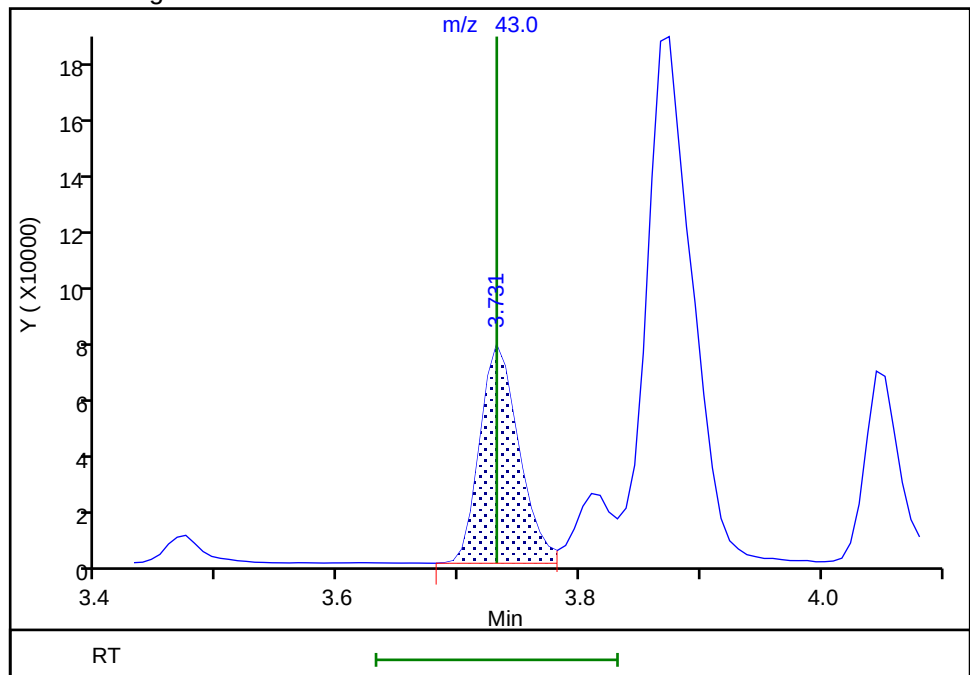
RT: 3.81
Area: 47942
Amount: 463.9486
Amount Units: ug/l

Processing Integration Results



RT: 3.73
Area: 169721
Amount: 1298.5024
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 16:18:08

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39397.D

Injection Date: 24-May-2018 15:46:30

Instrument ID: CVOAMS12

Lims ID: STD50

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

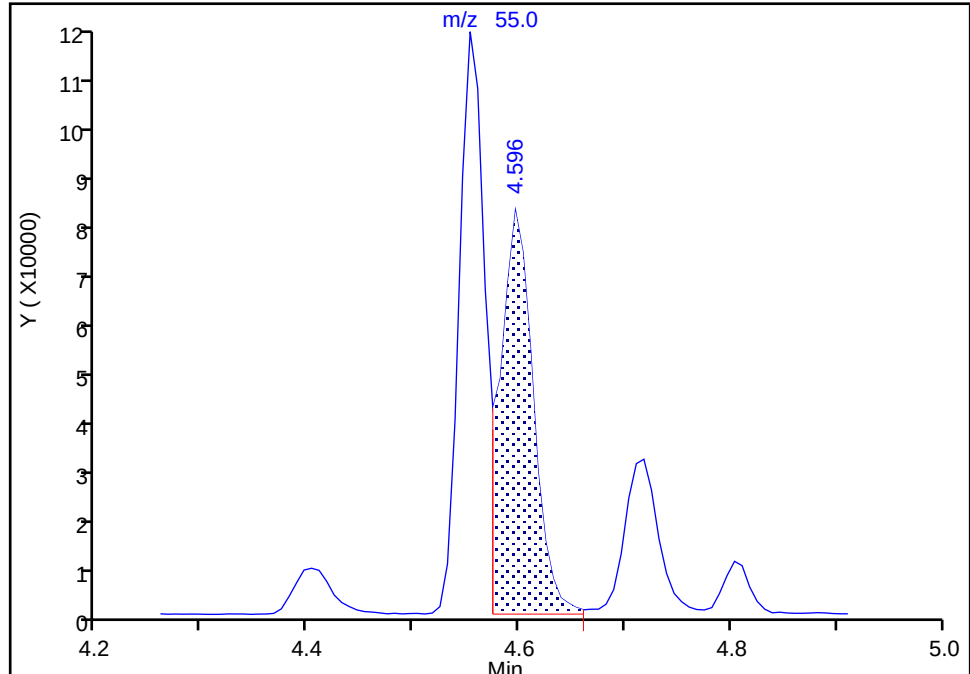
MS SCAN

65 Ethyl acrylate, CAS: 140-88-5

Signal: 1

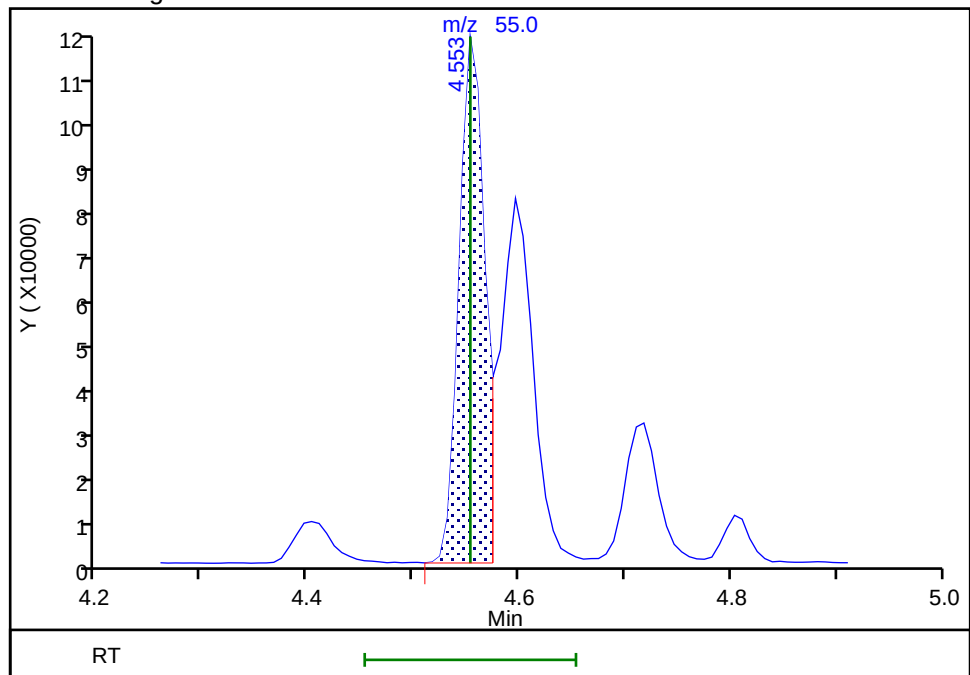
RT: 4.60
Area: 174370
Amount: 49.255339
Amount Units: ug/l

Processing Integration Results



RT: 4.55
Area: 194188
Amount: 49.597164
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:42:28

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39398.D
 Lims ID: STD200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 24-May-2018 16:14:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD200
 Misc. Info.: 460-0072608-008
 Operator ID: Instrument ID: CVOAMS12
 Sublist: chrom-8260W_12*sub10
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 27-May-2018 12:14:13 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: martineze

Date: 24-May-2018 16:36:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	92	386236	200.0	229.5	M
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	98	755502	200.0	207.4	
4 Vinyl chloride	62	1.071	1.071	0.000	98	649019	200.0	207.5	
5 Butadiene	54	1.092	1.093	-0.001	98	577884	200.0	208.0	
3 Chloromethane	50	1.092	1.093	-0.001	98	865426	200.0	213.7	
6 Bromomethane	94	1.250	1.250	0.000	99	292351	200.0	200.7	
7 Chloroethane	64	1.307	1.307	0.000	99	341389	200.0	201.3	
8 Dichlorofluoromethane	67	1.421	1.422	-0.001	97	1125840	200.0	202.6	
9 Trichlorofluoromethane	101	1.457	1.457	0.000	98	973269	200.0	200.7	
10 Pentane	72	1.500	1.500	0.000	94	195774	400.0	428.6	
11 Ethanol	46	1.600	1.600	0.000	98	136376	8000.0	8067.9	
13 Ethyl ether	59	1.636	1.636	0.000	61	489644	200.0	206.8	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	94	586637	200.0	224.9	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	96	488851	200.0	215.5	
15 Acrolein	56	1.707	1.708	-0.001	98	66157	200.0	223.4	
16 1,1-Dichloroethene	96	1.765	1.765	0.000	96	617819	200.0	221.8	
17 1,1,2-Trichloro-1,2,2-trif	101	1.765	1.772	-0.007	92	622588	200.0	225.8	
18 Acetone	58	1.807	1.808	-0.001	87	287912	1000.0	1015.8	M
19 Iodomethane	127	1.858	1.858	0.000	99	455601	200.0	194.0	
20 Carbon disulfide	76	1.893	1.893	0.000	99	1651766	200.0	198.2	
21 Isopropyl alcohol	45	1.922	1.908	0.014	97	397435	2000.0	1787.8	
22 Acetonitrile	38	1.986	1.986	0.000	84	216675	2000.0	1863.8	
23 3-Chloro-1-propene	39	1.993	1.986	0.007	92	705819	200.0	188.5	
24 Methyl acetate	74	2.015	2.015	0.000	98	239248	400.0	396.9	
25 Cyclopentene	67	2.043	2.044	-0.001	97	1248417	200.0	207.4	
26 Methylene Chloride	84	2.072	2.072	0.000	87	687410	200.0	200.1	
* 27 TBA-d9 (IS)	65	2.122	2.122	0.000	0	356656	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.179	2.172	0.007	98	794199	2000.0	2014.7	
29 Acrylonitrile	53	2.236	2.237	-0.001	94	1887239	2000.0	1672.1	
30 trans-1,2-Dichloroethene	96	2.251	2.251	0.000	88	608666	200.0	195.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.272	2.265	0.007	97	1620015	200.0	168.2	
32 Hexane	57	2.458	2.458	0.000	91	682633	200.0	227.0	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	99	901382	200.0	207.2	
34 Vinyl acetate	86	2.601	2.601	0.000	98	195264	400.0	342.7	
36 Isopropyl ether	45	2.623	2.623	0.000	84	1303079	200.0	175.1	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	92	511035	200.0	208.4	
37 Tert-butyl ethyl ether	59	2.901	2.902	-0.001	93	1531026	200.0	202.6	
* 38 2-Butanone-d5	46	2.980	2.973	0.007	0	280568	250.0	250.0	
39 2,2-Dichloropropane	97	3.002	2.995	0.007	83	209462	200.0	211.5	
40 cis-1,2-Dichloroethene	96	3.002	2.995	0.007	97	668014	200.0	205.4	
41 2-Butanone (MEK)	72	3.030	3.023	0.007	97	403794	1000.0	1062.9	
42 Propionitrile	52	3.073	3.059	0.014	95	175225	2000.0	2048.9	
43 Ethyl acetate	70	3.087	3.080	0.007	99	145321	400.0	418.4	
44 Methyl acrylate	55	3.109	3.109	0.000	98	571316	200.0	197.3	
46 Chlorobromomethane	128	3.195	3.188	0.007	74	372332	200.0	212.3	
45 Methacrylonitrile	67	3.209	3.188	0.021	85	2183429	2000.0	1729.9	
47 Tetrahydrofuran	42	3.245	3.245	0.000	93	336348	400.0	403.7	
48 Chloroform	83	3.273	3.266	0.007	97	969517	200.0	206.6	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	97	129300	50.0	51.7	
50 1,1,1-Trichloroethane	97	3.423	3.424	-0.001	98	927961	200.0	220.1	
51 Cyclohexane	84	3.473	3.474	-0.001	89	830561	200.0	226.1	
52 1,1-Dichloropropene	75	3.574	3.567	0.007	89	792130	200.0	223.1	
53 Carbon tetrachloride	117	3.574	3.567	0.007	93	871585	200.0	232.0	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	138015	50.0	50.8	
55 Isobutyl alcohol	43	3.745	3.731	0.014	99	708510	5000.0	5459.0	
56 Benzene	78	3.759	3.753	0.006	98	1898589	200.0	178.8	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	97	713135	200.0	180.9	
58 Isooctane	57	3.860	3.860	0.000	97	1374945	200.0	225.0	
59 Isopropyl acetate	61	3.874	3.867	0.007	97	241988	200.0	210.8	
60 Tert-amyl methyl ether	73	3.895	3.888	0.007	91	1686854	200.0	192.8	
* 61 Fluorobenzene	96	4.031	4.024	0.007	99	507186	50.0	50.0	
62 n-Heptane	43	4.053	4.053	0.000	88	599408	200.0	222.7	
64 Trichloroethene	95	4.396	4.396	0.000	96	664687	200.0	218.1	
63 n-Butanol	56	4.417	4.403	0.014	88	533309	5000.0	5691.7	
65 Ethyl acrylate	55	4.560	4.553	0.007	99	849022	200.0	222.2	a
66 Methylcyclohexane	83	4.603	4.596	0.007	93	989870	200.0	229.0	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	91	567740	200.0	213.7	
69 Dibromomethane	93	4.746	4.746	0.000	90	430906	200.0	211.2	
* 68 1,4-Dioxane-d8	96	4.753	4.754	-0.001	0	45091	1000.0	1000.0	
71 Methyl methacrylate	100	4.811	4.804	0.007	82	427432	400.0	431.9	
70 1,4-Dioxane	88	4.811	4.811	0.000	80	201378	4000.0	3984.6	
72 n-Propyl acetate	43	4.889	4.889	0.000	97	841176	200.0	215.1	
73 Dichlorobromomethane	83	4.939	4.939	0.000	98	830062	200.0	215.1	
74 2-Nitropropane	41	5.211	5.204	0.007	99	375455	400.0	467.5	
75 2-Chloroethyl vinyl ether	63	5.333	5.326	0.007	94	458217	200.0	206.8	
76 Epichlorohydrin	57	5.375	5.368	0.007	98	1352319	4000.0	4139.3	
77 cis-1,3-Dichloropropene	75	5.468	5.469	-0.001	95	955240	200.0	208.6	
78 4-Methyl-2-pentanone (MIBK	43	5.697	5.690	0.007	87	2366945	1000.0	867.5	
\$ 79 Toluene-d8 (Surr)	98	5.797	5.790	0.007	99	533741	50.0	51.7	
80 Toluene	91	5.876	5.869	0.007	97	2203995	200.0	171.5	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	98	947289	200.0	213.7	
82 Ethyl methacrylate	69	6.369	6.362	0.007	88	863132	200.0	210.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.405	6.398	0.007	93	490844	200.0	207.7	
84 Tetrachloroethene	166	6.577	6.570	0.007	98	827551	200.0	228.1	
85 1,3-Dichloropropane	76	6.620	6.613	0.007	93	954422	200.0	207.8	
86 2-Hexanone	43	6.798	6.791	0.007	90	1847693	1000.0	915.8	
87 Chlorodibromomethane	129	6.913	6.906	0.007	97	795610	200.0	220.2	
88 n-Butyl acetate	43	7.027	7.020	0.007	97	959061	200.0	209.7	
89 Ethylene Dibromide	107	7.034	7.034	0.000	99	694362	200.0	211.5	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	83	476115	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	93	1778468	200.0	191.4	
92 1,1,1,2-Tetrachloroethane	131	7.907	7.900	0.007	96	725002	200.0	216.8	
93 Ethylbenzene	106	7.971	7.971	0.000	96	992033	200.0	207.7	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	1233684	200.0	207.8	
95 o-Xylene	106	8.750	8.743	0.007	97	1240145	200.0	210.5	
96 Styrene	104	8.779	8.772	0.007	94	1886135	200.0	182.1	
97 n-Butyl acrylate	73	8.829	8.829	0.000	98	493468	200.0	199.8	
98 Bromoform	173	8.993	8.994	-0.001	97	668068	200.0	234.3	
99 Amyl acetate (mixed isomer	43	9.222	9.215	0.007	93	1144963	200.0	211.7	
100 Isopropylbenzene	105	9.358	9.351	0.007	96	2561892	200.0	178.2	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	242687	50.0	55.1	
102 Bromobenzene	156	9.744	9.737	0.007	86	986165	200.0	210.0	
103 1,1,2,2-Tetrachloroethane	83	9.859	9.852	0.007	95	853869	200.0	196.6	
104 1,2,3-Trichloropropane	110	9.880	9.873	0.007	94	304709	200.0	207.8	
105 trans-1,4-Dichloro-2-buten	53	9.959	9.952	0.007	94	269467	200.0	207.4	
106 N-Propylbenzene	91	10.023	10.016	0.007	95	2784023	200.0	169.7	
107 2-Chlorotoluene	91	10.095	10.088	0.007	95	1952217	200.0	173.3	
108 4-Ethyltoluene	105	10.223	10.216	0.007	95	2601257	200.0	176.9	
109 4-Chlorotoluene	91	10.288	10.281	0.007	95	1903329	200.0	167.5	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	96	2090784	200.0	178.1	
111 Butyl Methacrylate	87	10.617	10.617	0.000	92	985471	200.0	219.9	
112 tert-Butylbenzene	119	10.853	10.853	-0.001	93	2084901	200.0	187.3	
113 1,2,4-Trimethylbenzene	105	10.938	10.939	0.000	96	2172055	200.0	191.0	
114 sec-Butylbenzene	105	11.217	11.210	0.007	95	2562605	200.0	172.5	
115 1,3-Dichlorobenzene	146	11.310	11.303	0.007	93	1669871	200.0	193.3	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	94	309022	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.446	11.439	0.007	92	1644208	200.0	182.1	
118 4-Isopropyltoluene	119	11.467	11.460	0.007	98	2246672	200.0	175.8	
119 1,2,3-Trimethylbenzene	105	11.560	11.553	0.007	95	2066184	200.0	178.8	
120 Benzyl chloride	126	11.660	11.654	0.006	97	408358	200.0	206.2	
121 2,3-Dihydroindene	117	11.789	11.782	0.007	95	2198078	200.0	154.9	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	93	1489530	200.0	176.9	
123 p-Diethylbenzene	119	11.975	11.968	0.007	92	1436283	200.0	222.7	
124 n-Butylbenzene	92	11.997	11.997	0.000	96	1129939	200.0	217.8	
125 1,2-Dibromo-3-Chloropropan	75	12.797	12.790	0.007	93	207119	200.0	208.0	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	97	1385177	200.0	188.6	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	97	1053887	200.0	234.0	
128 1,2,4-Trichlorobenzene	180	13.577	13.570	0.007	96	950462	200.0	240.4	
129 Hexachlorobutadiene	225	13.748	13.749	-0.001	95	509215	200.0	229.5	
130 Naphthalene	128	13.770	13.770	0.000	97	1532273	200.0	182.6	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	95	867280	200.0	236.5	
S 132 1,2-Dichloroethene, Total	100				0		400.0	400.9	
S 133 Xylenes, Total	100				0		400.0	418.3	
S 134 Total BTEX	1				0		1000.0	976.3	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00174	Amount Added: 1.00	Units: uL	
ACROLEIN W_00077	Amount Added: 20.00	Units: uL	
Ethanol mix_00015	Amount Added: 20.00	Units: uL	
MIX 2 Hi_00070	Amount Added: 20.00	Units: uL	
MIX I Hi_00094	Amount Added: 20.00	Units: uL	
GAS Hi_00256	Amount Added: 20.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39398.D

Injection Date: 24-May-2018 16:14:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: STD200

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

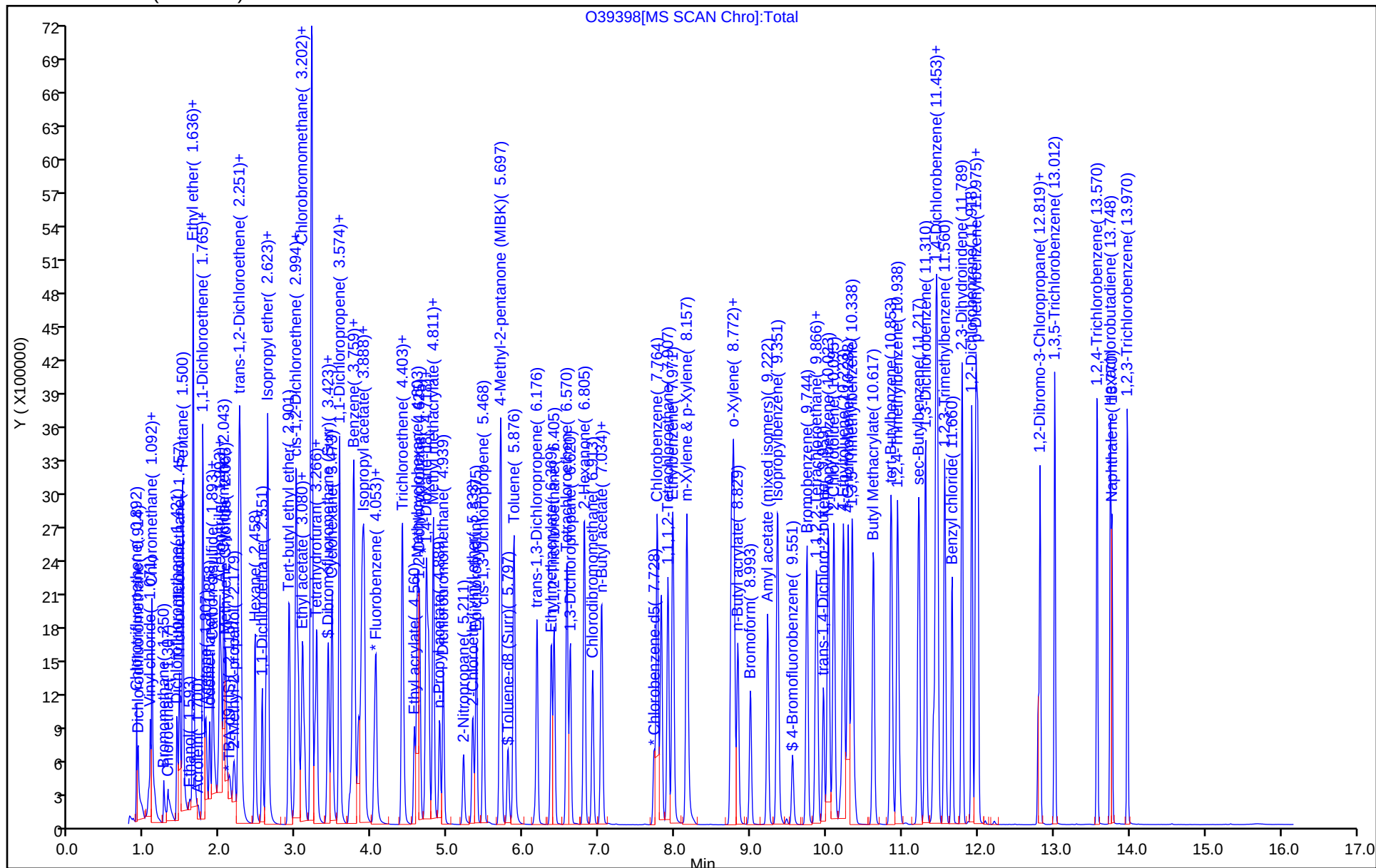
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39398.D

Injection Date: 24-May-2018 16:14:30

Instrument ID: CVOAMS12

Lims ID: STD200

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

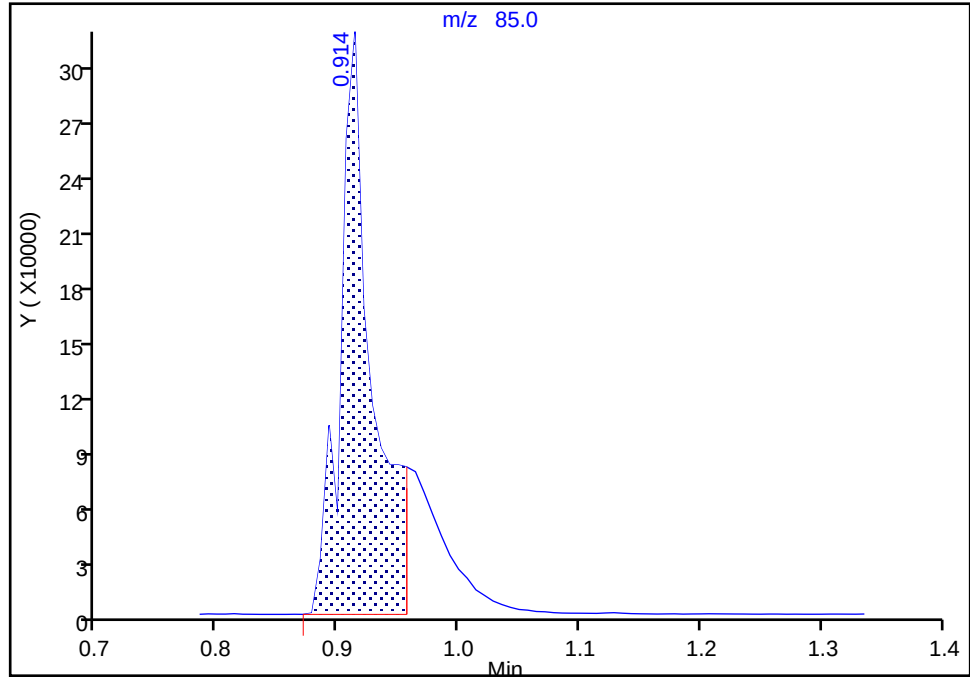
MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

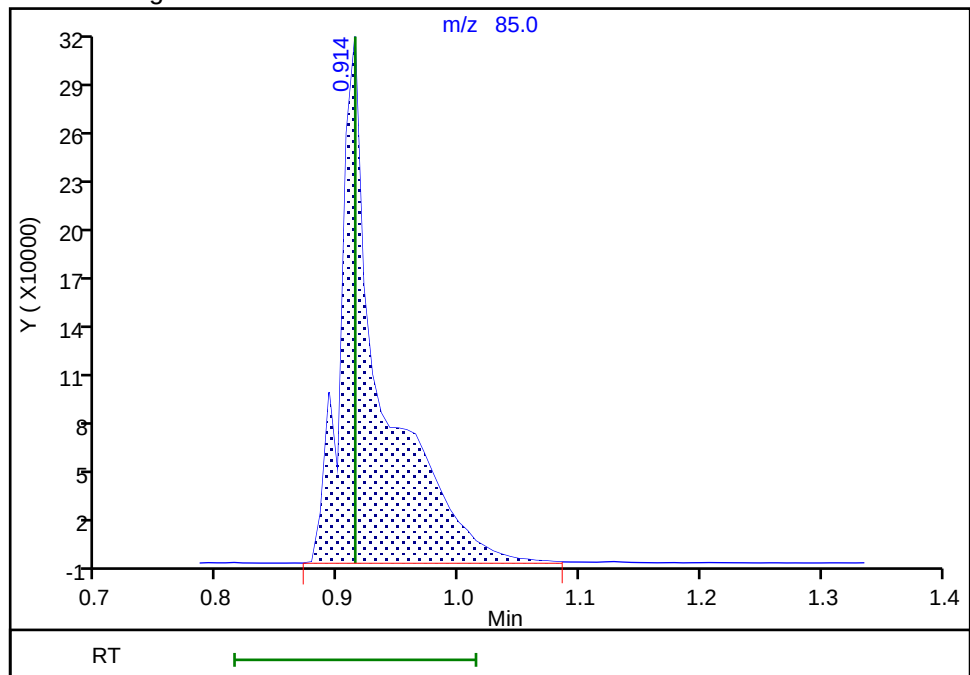
RT: 0.91
Area: 595505
Amount: 178.5629
Amount Units: ug/l

Processing Integration Results



RT: 0.91
Area: 755502
Amount: 207.3605
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 16:35:32

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39398.D

Injection Date: 24-May-2018 16:14:30

Instrument ID: CVOAMS12

Lims ID: STD200

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

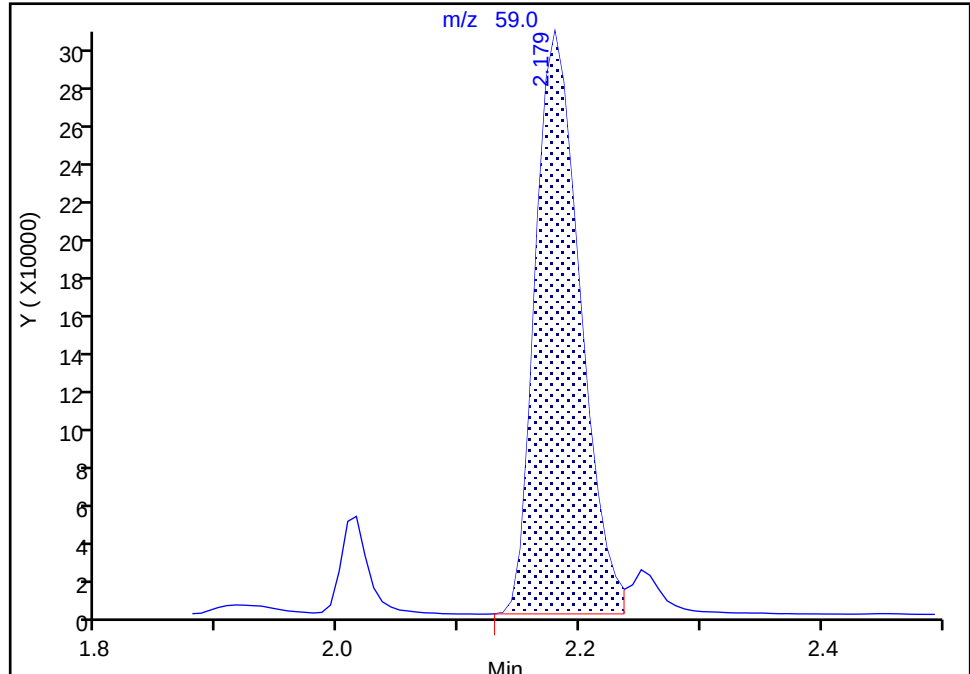
Detector: MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

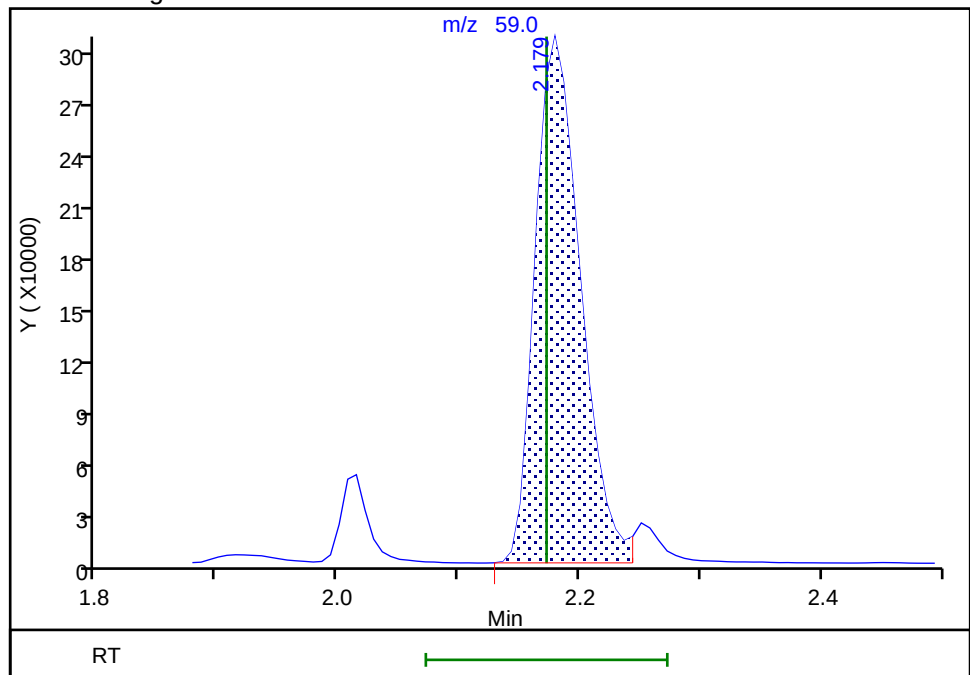
RT: 2.18
Area: 787393
Amount: 2058.1315
Amount Units: ug/l

Processing Integration Results



RT: 2.18
Area: 794199
Amount: 2014.6814
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:44:46

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39398.D

Injection Date: 24-May-2018 16:14:30

Instrument ID: CVOAMS12

Lims ID: STD200

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#:

8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: 8260W_12

Limit Group:

VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector

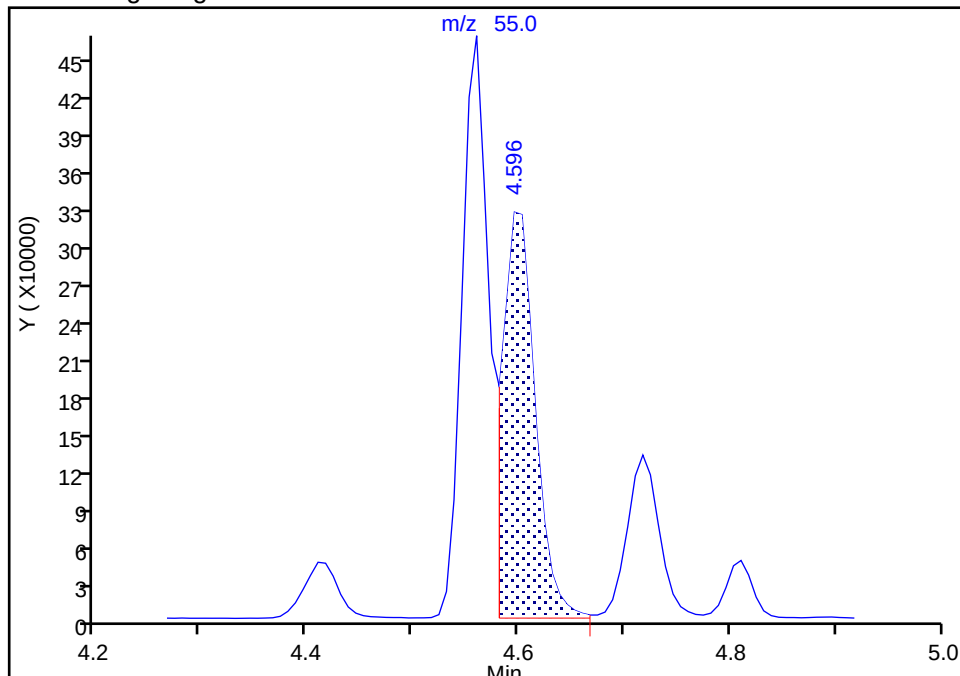
MS SCAN

65 Ethyl acrylate, CAS: 140-88-5

Signal: 1

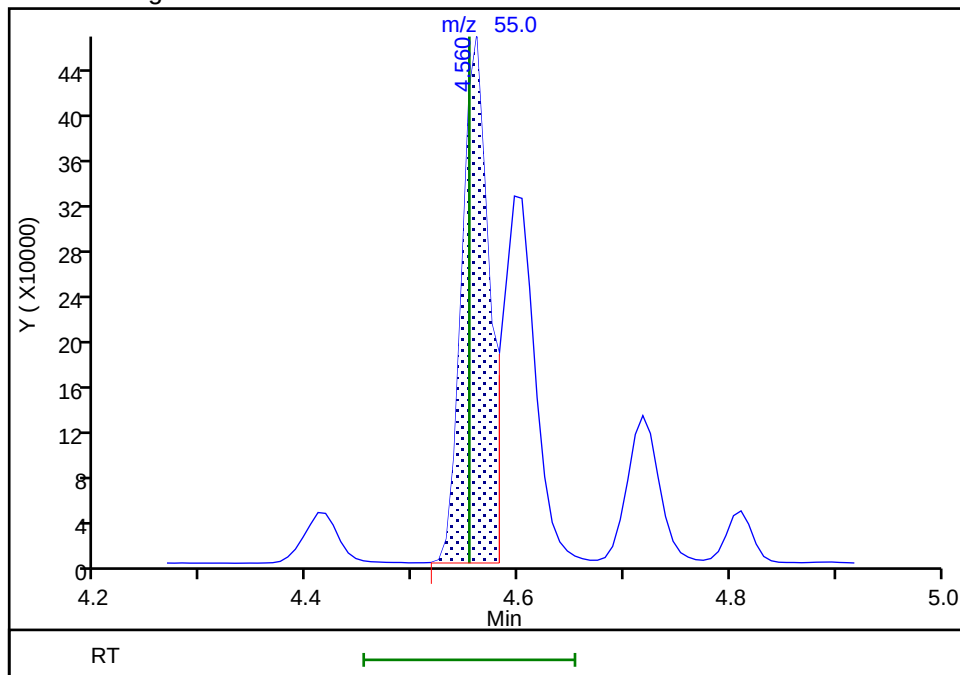
RT: 4.60
Area: 694820
Amount: 197.4403
Amount Units: ug/l

Processing Integration Results



RT: 4.56
Area: 849022
Amount: 222.2106
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:42:53

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Lims ID: STD500
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 24-May-2018 16:43:30 ALS Bottle#: 8 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD500
 Misc. Info.: 460-0072608-009
 Operator ID: Instrument ID: CVOAMS12
 Sublist: chrom-8260W_12*sub10
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 27-May-2018 12:14:33 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK002

First Level Reviewer: martineze

Date: 24-May-2018 17:16:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	93	977898	500.0	516.9	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	98	1940848	500.0	476.9	M
4 Vinyl chloride	62	1.071	1.071	0.000	96	1586824	500.0	454.3	
3 Chloromethane	50	1.057	1.093	-0.036	98	2144252	500.0	474.1	
5 Butadiene	54	1.093	1.093	0.000	94	1381379	500.0	445.1	
6 Bromomethane	94	1.250	1.250	0.000	99	786584	500.0	499.9	
7 Chloroethane	64	1.307	1.307	0.000	99	828442	500.0	499.8	M
8 Dichlorofluoromethane	67	1.422	1.422	0.000	95	2511358	500.0	404.6	
9 Trichlorofluoromethane	101	1.457	1.457	0.000	97	2510285	500.0	463.3	M
10 Pentane	72	1.500	1.500	0.000	84	472687	1000.0	926.5	
11 Ethanol	46	1.636	1.600	0.036	95	313578	20000	19987	
12 1,2-Dichloro-1,1,2-trifluo	117	1.643	1.636	0.007	91	1299468	500.0	446.0	
13 Ethyl ether	59	1.636	1.636	0.000	92	1053596	500.0	398.5	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	96	1050682	500.0	414.6	
15 Acrolein	56	1.708	1.708	0.000	94	151169	400.0	465.7	
16 1,1-Dichloroethene	96	1.765	1.765	0.000	92	1407936	500.0	452.4	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	92	1355639	500.0	440.2	
18 Acetone	58	1.808	1.808	0.000	89	660793	2500.0	2496.5	
19 Iodomethane	127	1.858	1.858	0.000	100	980405	500.0	373.8	
20 Carbon disulfide	76	1.901	1.893	0.008	99	3280339	500.0	352.4	
21 Isopropyl alcohol	45	1.936	1.908	0.028	98	1015292	5000.0	4166.4	
23 3-Chloro-1-propene	39	1.994	1.986	0.008	88	1279347	500.0	305.8	
22 Acetonitrile	38	1.994	1.986	0.008	82	412136	5000.0	3234.2	
24 Methyl acetate	74	2.015	2.015	0.000	96	547822	1000.0	829.0	
25 Cyclopentene	67	2.044	2.044	0.000	92	2476970	500.0	368.5	
26 Methylene Chloride	84	2.072	2.072	0.000	84	1511197	500.0	393.9	
* 27 TBA-d9 (IS)	65	2.137	2.122	0.015	0	390956	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.201	2.172	0.029	98	1864630	5000.0	4997.2	M
29 Acrylonitrile	53	2.251	2.237	0.014	84	3595717	5000.0	2852.2	
30 trans-1,2-Dichloroethene	96	2.258	2.251	0.007	86	1624857	500.0	467.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.272	2.265	0.007	95	3157061	500.0	293.5	
32 Hexane	57	2.458	2.458	0.000	91	1478461	500.0	440.2	
33 1,1-Dichloroethane	63	2.558	2.551	0.007	97	2311299	500.0	475.8	
34 Vinyl acetate	86	2.608	2.601	0.007	96	538559	1000.0	841.0	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	91	1285832	500.0	469.3	
36 Isopropyl ether	45	2.630	2.623	0.007	79	2665075	500.0	320.7	
37 Tert-butyl ethyl ether	59	2.909	2.902	0.007	95	2954806	500.0	350.1	
* 38 2-Butanone-d5	46	2.987	2.973	0.014	0	315342	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.002	2.995	0.007	94	1669966	500.0	459.8	
39 2,2-Dichloropropane	97	3.002	2.995	0.007	96	521957	500.0	471.9	
41 2-Butanone (MEK)	72	3.037	3.023	0.014	95	947867	2500.0	2219.9	
42 Propionitrile	52	3.095	3.059	0.036	96	426124	5000.0	4545.4	
43 Ethyl acetate	70	3.095	3.080	0.015	96	360083	1000.0	922.4	
44 Methyl acrylate	55	3.116	3.109	0.007	98	1586373	500.0	490.4	
45 Methacrylonitrile	67	3.231	3.188	0.043	70	4156885	5000.0	2948.6	
46 Chlorobromomethane	128	3.209	3.188	0.021	73	949371	500.0	484.7	
47 Tetrahydrofuran	42	3.259	3.245	0.014	90	790852	1000.0	844.6	
48 Chloroform	83	3.281	3.266	0.015	92	2017314	500.0	384.9	
\$ 49 Dibromofluoromethane (Surr	113	3.416	3.402	0.014	98	136888	50.0	49.0	
50 1,1,1-Trichloroethane	97	3.424	3.424	0.000	95	1998599	500.0	424.3	
51 Cyclohexane	84	3.474	3.474	0.000	88	1754829	500.0	427.7	
53 Carbon tetrachloride	117	3.574	3.567	0.007	95	1904652	500.0	453.8	
52 1,1-Dichloropropene	75	3.574	3.567	0.007	87	1660709	500.0	418.7	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.710	3.702	0.008	0	142534	50.0	47.0	
55 Isobutyl alcohol	43	3.774	3.731	0.043	99	1779200	12500	12506	
56 Benzene	78	3.760	3.753	0.007	91	3496550	500.0	289.1	
57 1,2-Dichloroethane	62	3.781	3.774	0.007	95	1735408	500.0	394.0	
58 Isooctane	57	3.860	3.860	0.000	93	2706607	500.0	396.5	
59 Isopropyl acetate	61	3.881	3.867	0.014	96	573694	500.0	447.4	
60 Tert-amyl methyl ether	73	3.903	3.888	0.015	89	3203305	500.0	327.8	
* 61 Fluorobenzene	96	4.031	4.024	0.007	99	566510	50.0	50.0	
62 n-Heptane	43	4.053	4.053	0.000	86	1404435	500.0	467.1	
64 Trichloroethene	95	4.396	4.396	0.000	95	1499394	500.0	440.4	
63 n-Butanol	56	4.439	4.403	0.036	89	1226846	12500	11945	
65 Ethyl acrylate	55	4.568	4.553	0.015	98	1997961	500.0	468.2	a
66 Methylcyclohexane	83	4.603	4.596	0.007	95	2061066	500.0	426.8	
67 1,2-Dichloropropane	63	4.632	4.625	0.007	88	1237779	500.0	417.2	
69 Dibromomethane	93	4.754	4.746	0.008	90	972043	500.0	426.5	
* 68 1,4-Dioxane-d8	96	4.761	4.754	0.007	0	53073	1000.0	1000.0	
71 Methyl methacrylate	100	4.818	4.804	0.014	85	1023604	1000.0	926.0	
70 1,4-Dioxane	88	4.825	4.811	0.014	94	484030	10000	8136.9	
72 n-Propyl acetate	43	4.897	4.889	0.008	98	1874922	500.0	429.3	
73 Dichlorobromomethane	83	4.947	4.939	0.008	94	1746504	500.0	405.1	
74 2-Nitropropane	41	5.218	5.204	0.014	99	1036774	1000.0	1155.8	
75 2-Chloroethyl vinyl ether	63	5.340	5.326	0.014	94	1221052	500.0	493.4	
76 Epichlorohydrin	57	5.397	5.368	0.029	94	3035932	10000	8267.8	
77 cis-1,3-Dichloropropene	75	5.476	5.469	0.007	94	2018319	500.0	386.8	
78 4-Methyl-2-pentanone (MIBK	43	5.719	5.690	0.029	67	4353123	2500.0	1419.5	
\$ 79 Toluene-d8 (Surr)	98	5.797	5.790	0.007	100	549701	50.0	46.7	
80 Toluene	91	5.883	5.869	0.014	91	3732339	500.0	254.9	
81 trans-1,3-Dichloropropene	75	6.184	6.176	0.008	94	2038194	500.0	403.7	
82 Ethyl methacrylate	69	6.377	6.362	0.015	88	1946449	500.0	417.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.412	6.398	0.014	93	1124402	500.0	417.7	
84 Tetrachloroethene	166	6.577	6.570	0.007	96	1873044	500.0	453.2	
85 1,3-Dichloropropane	76	6.627	6.613	0.014	93	1986699	500.0	379.7	
86 2-Hexanone	43	6.820	6.791	0.029	78	3666532	2500.0	1616.8	
87 Chlorodibromomethane	129	6.920	6.906	0.014	97	1870616	500.0	454.5	
88 n-Butyl acetate	43	7.034	7.020	0.014	93	2113959	500.0	405.8	
89 Ethylene Dibromide	107	7.049	7.034	0.015	100	1565052	500.0	418.5	
* 90 Chlorobenzene-d5	117	7.728	7.721	0.007	84	542336	50.0	50.0	
91 Chlorobenzene	112	7.771	7.764	0.007	82	3274940	500.0	309.4	
92 1,1,1,2-Tetrachloroethane	131	7.914	7.900	0.014	95	1851509	500.0	486.0	
93 Ethylbenzene	106	7.985	7.971	0.014	82	2259271	500.0	415.2	
94 m-Xylene & p-Xylene	106	8.171	8.157	0.014	0	2773447	500.0	410.2	
95 o-Xylene	106	8.758	8.743	0.015	94	2825747	500.0	421.0	
96 Styrene	104	8.786	8.772	0.014	78	3662852	500.0	310.4	
97 n-Butyl acrylate	73	8.843	8.829	0.014	92	1240138	500.0	440.8	
98 Bromoform	173	9.008	8.994	0.014	94	1714615	500.0	527.9	
99 Amyl acetate (mixed isomer	43	9.237	9.215	0.022	94	2393722	500.0	400.9	
100 Isopropylbenzene	105	9.365	9.351	0.014	88	4461558	500.0	272.4	
\$ 101 4-Bromofluorobenzene	174	9.558	9.551	0.007	96	253520	50.0	50.5	
102 Bromobenzene	156	9.752	9.737	0.015	81	2099252	500.0	404.9	
103 1,1,2,2-Tetrachloroethane	83	9.866	9.852	0.014	92	1965657	500.0	410.0	
104 1,2,3-Trichloropropane	110	9.887	9.873	0.014	92	721585	500.0	445.7	
105 trans-1,4-Dichloro-2-buten	53	9.973	9.952	0.021	94	712109	500.0	496.5	
106 N-Propylbenzene	91	10.045	10.016	0.029	80	4745023	500.0	262.0	
107 2-Chlorotoluene	91	10.116	10.088	0.028	87	3700947	500.0	297.7	
108 4-Ethyltoluene	105	10.238	10.216	0.022	82	4740800	500.0	292.1	
109 4-Chlorotoluene	91	10.302	10.281	0.021	84	3627620	500.0	289.1	
110 1,3,5-Trimethylbenzene	105	10.352	10.338	0.014	91	3923241	500.0	302.8	
111 Butyl Methacrylate	87	10.631	10.617	0.014	92	2183811	500.0	441.4	
112 tert-Butylbenzene	119	10.867	10.853	0.014	82	3863453	500.0	314.4	
113 1,2,4-Trimethylbenzene	105	10.953	10.939	0.015	87	3898125	500.0	310.5	
114 sec-Butylbenzene	105	11.232	11.210	0.022	82	4286873	500.0	261.3	
115 1,3-Dichlorobenzene	146	11.317	11.303	0.014	81	2980077	500.0	312.5	
* 116 1,4-Dichlorobenzene-d4	152	11.418	11.410	0.008	96	341116	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.460	11.439	0.021	86	3034064	500.0	304.4	
118 4-Isopropyltoluene	119	11.475	11.460	0.015	95	3869165	500.0	274.3	
119 1,2,3-Trimethylbenzene	105	11.575	11.553	0.022	82	3482943	500.0	273.1	
120 Benzyl chloride	126	11.668	11.654	0.014	90	947224	500.0	433.4	
121 2,3-Dihydroindene	117	11.804	11.782	0.022	81	3447476	500.0	220.1	
122 1,2-Dichlorobenzene	146	11.932	11.918	0.014	89	2635130	500.0	283.5	
123 p-Diethylbenzene	119	11.982	11.968	0.014	89	2621540	500.0	368.2	
124 n-Butylbenzene	92	12.004	11.997	0.007	88	2194345	500.0	383.1	
125 1,2-Dibromo-3-Chloropropan	75	12.798	12.790	0.008	93	531151	500.0	483.3	
126 1,2,4,5-Tetramethylbenzene	119	12.826	12.819	0.007	86	2501985	500.0	308.7	
127 1,3,5-Trichlorobenzene	180	13.019	13.012	0.007	88	1935003	500.0	389.2	
128 1,2,4-Trichlorobenzene	180	13.577	13.570	0.007	92	1789050	500.0	410.0	
129 Hexachlorobutadiene	225	13.749	13.749	0.000	92	1105454	500.0	451.3	
130 Naphthalene	128	13.770	13.770	0.000	93	2542991	500.0	274.5	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	88	1678073	500.0	414.6	
S 132 1,2-Dichloroethene, Total	100				0		1000.0	926.9	
S 133 Xylenes, Total	100				0		1000.0	831.2	
S 134 Total BTEX	1				0		2500.0	1790.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260SURR250_00174	Amount Added: 1.00	Units: uL	
ACROLEIN W_00077	Amount Added: 40.00	Units: uL	
Ethanol mix_00015	Amount Added: 50.00	Units: uL	
MIX 2 Hi_00070	Amount Added: 50.00	Units: uL	
MIX I Hi_00094	Amount Added: 50.00	Units: uL	
GAS Hi_00256	Amount Added: 50.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180524-72608.b\\O39399.D

Injection Date: 24-May-2018 16:43:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: STD500

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

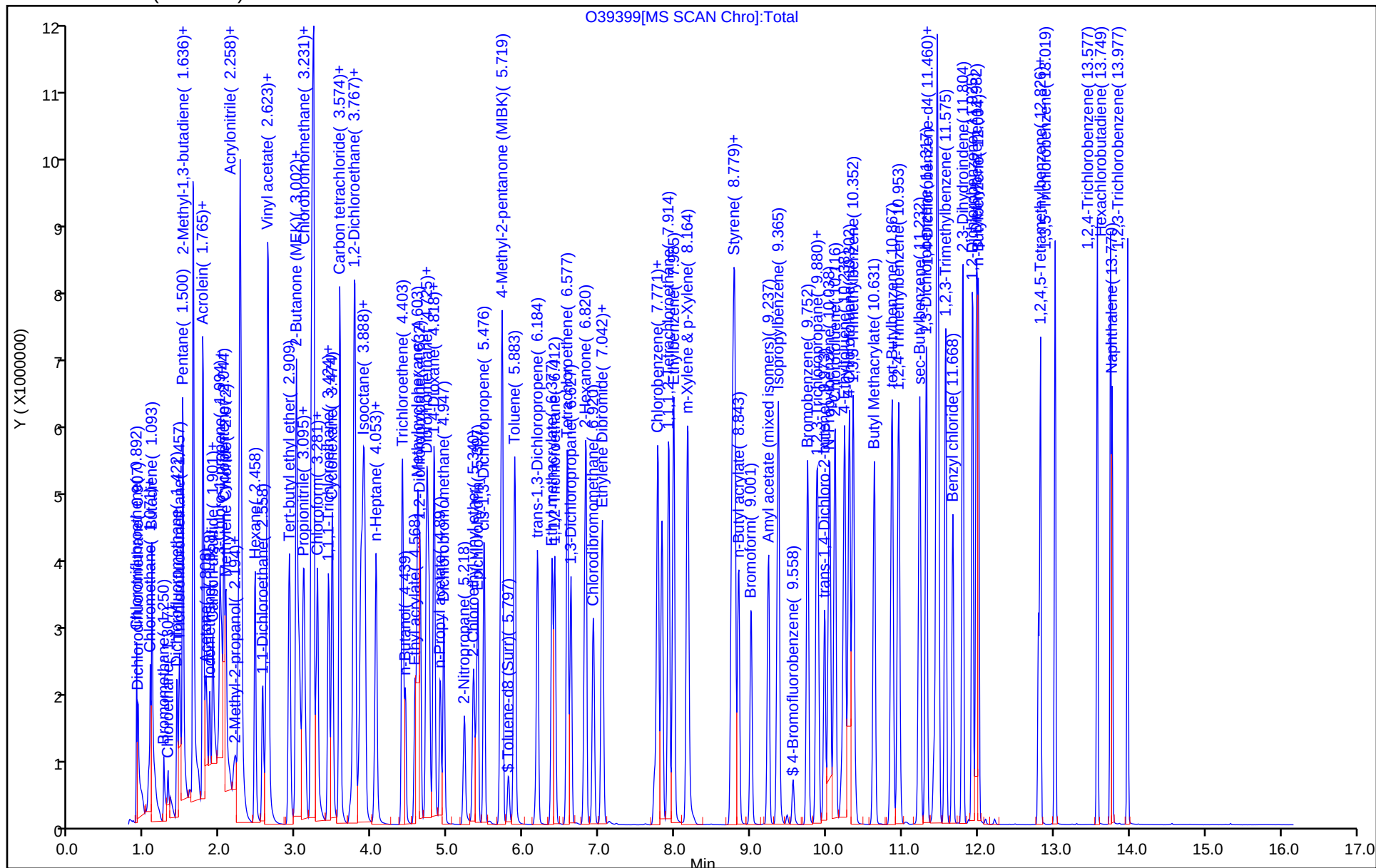
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D

Injection Date: 24-May-2018 16:43:30

Instrument ID: CVOAMS12

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

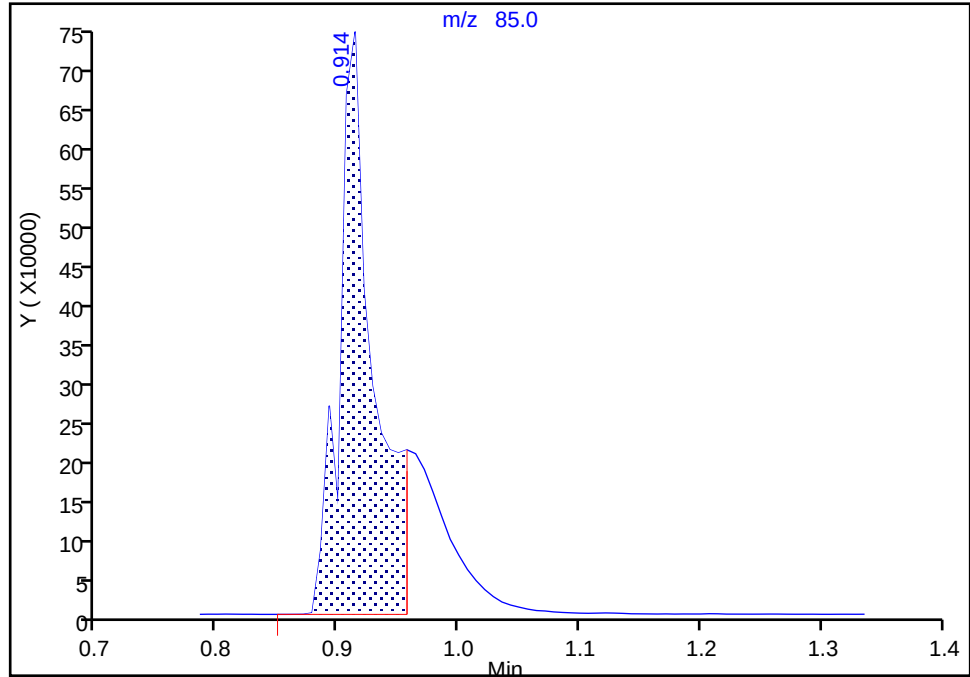
Detector: MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

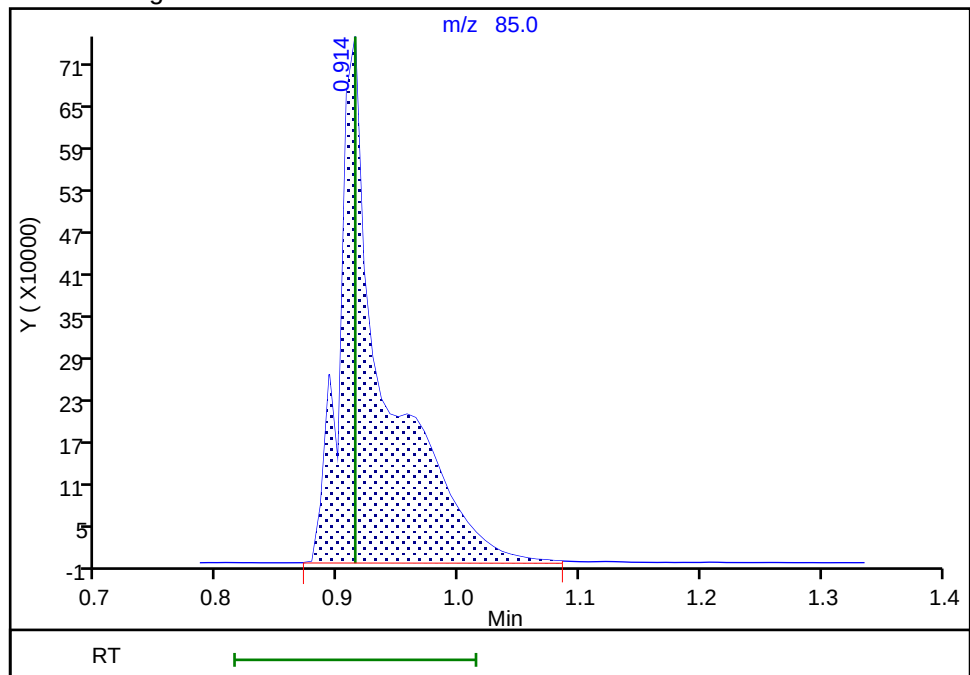
RT: 0.91
Area: 1482409
Amount: 395.5952
Amount Units: ug/l

Processing Integration Results



RT: 0.91
Area: 1940848
Amount: 476.9158
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 17:04:17

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D

Injection Date: 24-May-2018 16:43:30

Instrument ID: CVOAMS12

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

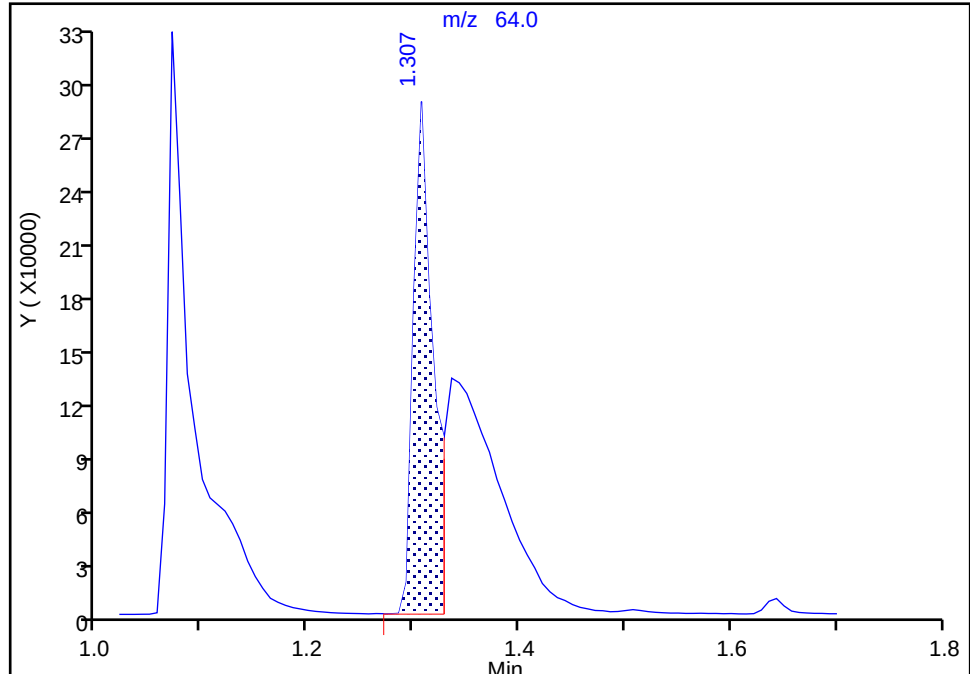
Detector: MS SCAN

7 Chloroethane, CAS: 75-00-3

Signal: 1

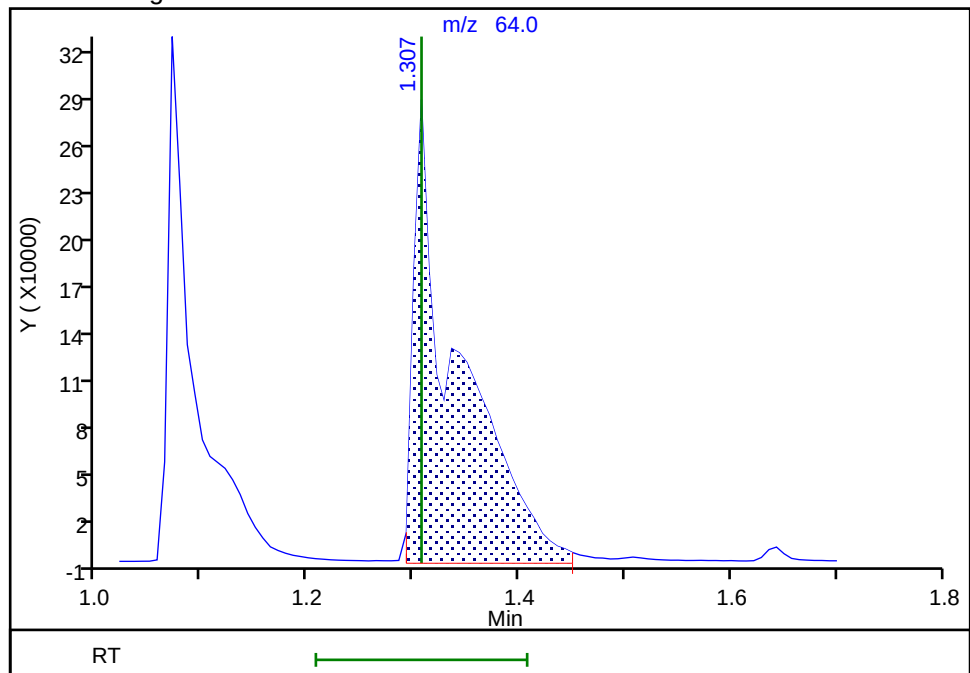
RT: 1.31
Area: 375971
Amount: 205.2476
Amount Units: ug/l

Processing Integration Results



RT: 1.31
Area: 828442
Amount: 499.7542
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 17:04:33

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D

Injection Date: 24-May-2018 16:43:30

Instrument ID: CVOAMS12

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

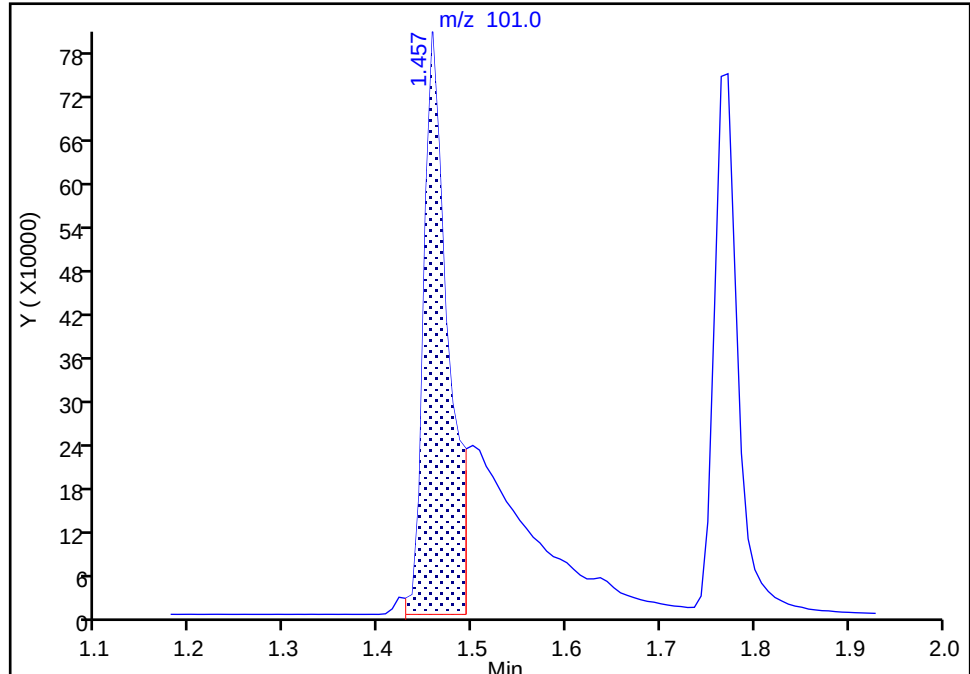
Detector: MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

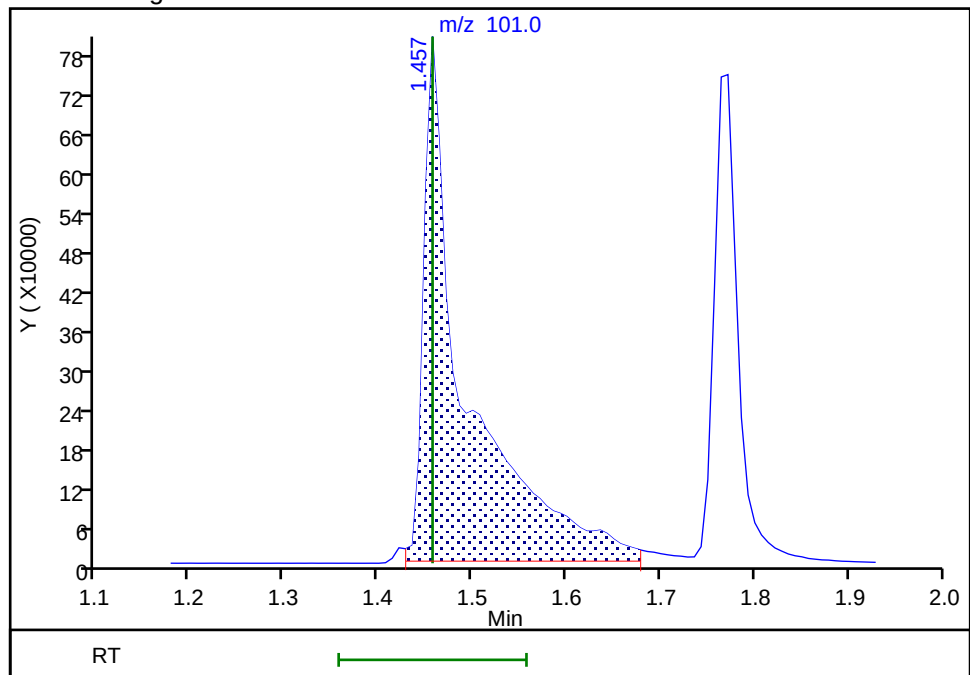
RT: 1.46
Area: 1466909
Amount: 368.0108
Amount Units: ug/l

Processing Integration Results



RT: 1.46
Area: 2510285
Amount: 463.3481
Amount Units: ug/l

Manual Integration Results



Reviewer: martineze, 24-May-2018 17:04:44

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D

Injection Date: 24-May-2018 16:43:30

Instrument ID: CVOAMS12

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

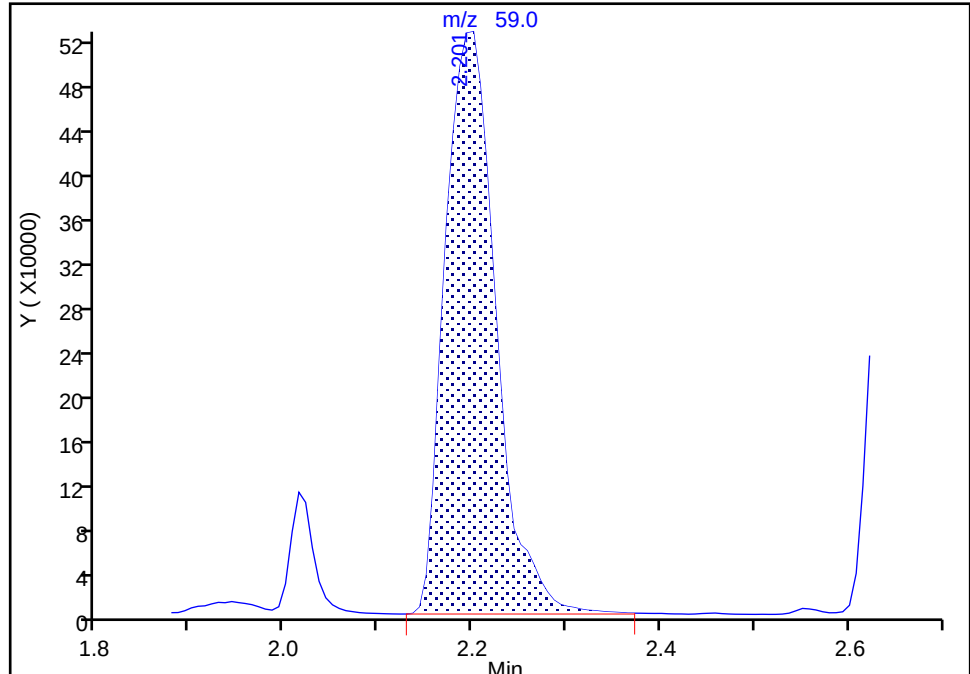
Detector: MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

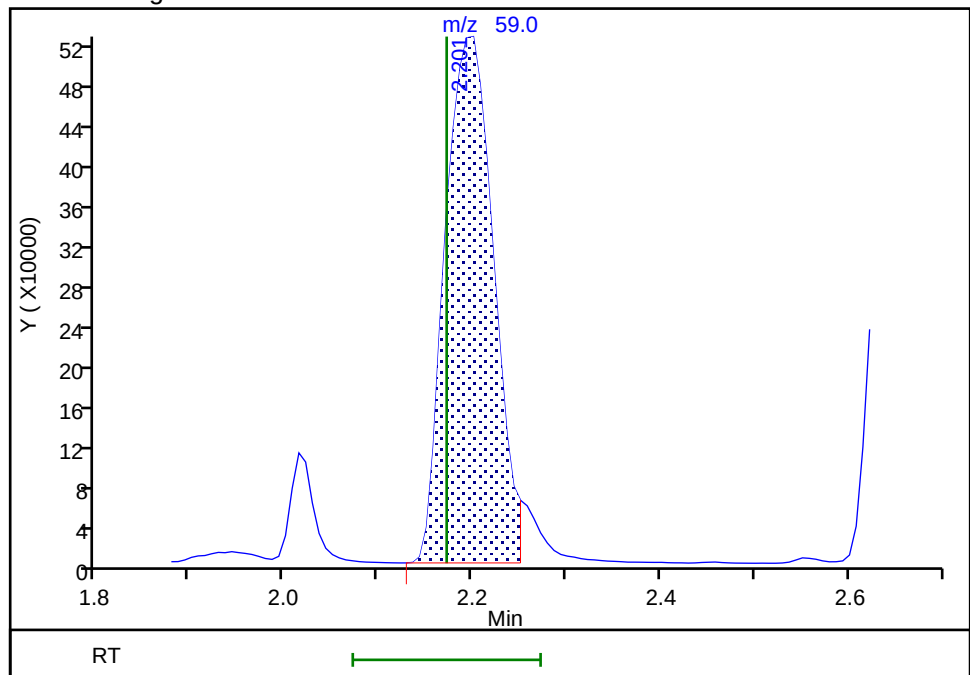
RT: 2.20
Area: 1950944
Amount: 4913.3841
Amount Units: ug/l

Processing Integration Results



RT: 2.20
Area: 1864630
Amount: 4997.2089
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:45:44

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D

Injection Date: 24-May-2018 16:43:30

Instrument ID: CVOAMS12

Lims ID: STD500

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

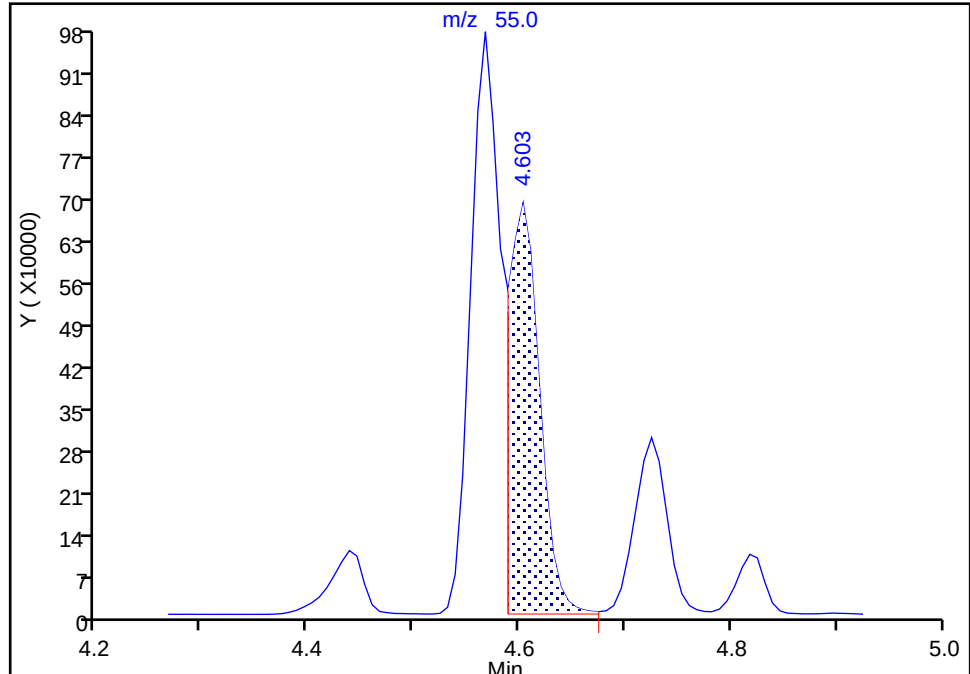
Detector: MS SCAN

65 Ethyl acrylate, CAS: 140-88-5

Signal: 1

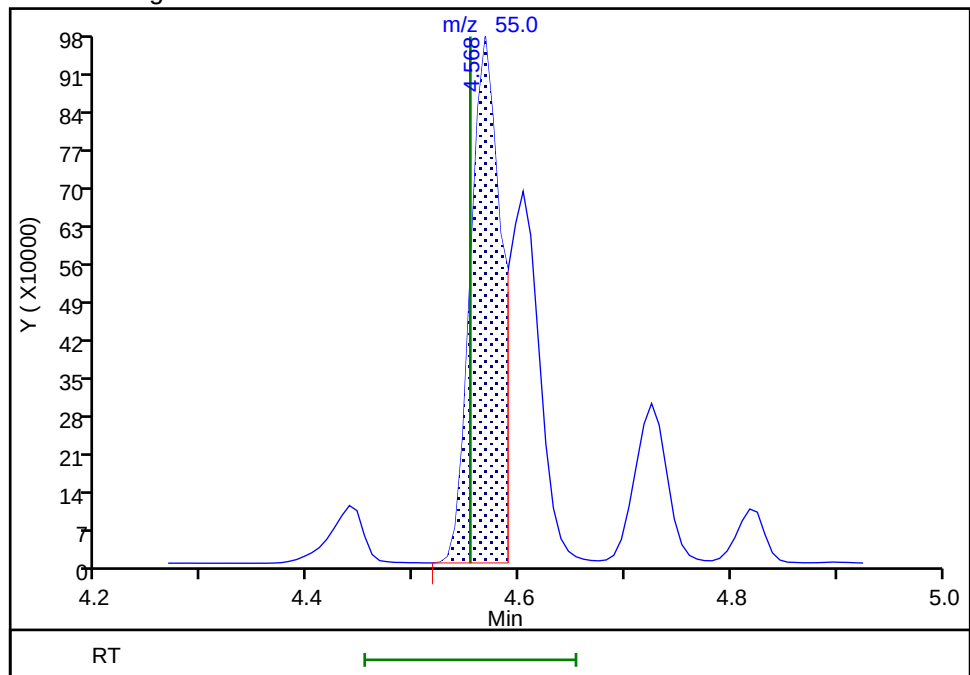
RT: 4.60
Area: 1417727
Amount: 347.9687
Amount Units: ug/l

Processing Integration Results



RT: 4.57
Area: 1997961
Amount: 468.1581
Amount Units: ug/l

Manual Integration Results



Reviewer: delpolitov, 27-May-2018 09:46:00

Audit Action: Assigned Compound ID

Audit Reason: Peak Tail

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Lab Sample ID: CCVIS 460-524141/3 Calibration Date: 06/01/2018 00:22

Instrument ID: CVOAMS12 Calib Start Date: 05/24/2018 13:51

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/24/2018 16:43

Lab File ID: O396439.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	1.500	0.9901		13.2	20.0	-34.0*	20.0
Dichlorodifluoromethane	Ave	0.3592	0.2966	0.1000	16.5	20.0	-17.4	20.0
Vinyl chloride	Ave	0.3083	0.3101	0.1000	20.1	20.0	0.6	20.0
Butadiene	Ave	0.2739	0.2663		19.4	20.0	-2.8	20.0
Chloromethane	Ave	0.3992	0.3780	0.1000	18.9	20.0	-5.3	20.0
Bromomethane	QuaF		1.328	0.1000	20.0	20.0	-0.0	50.0
Chloroethane	QuaF		0.1788	0.1000	19.9	20.0	-0.6	50.0
Dichlorofluoromethane	Ave	0.5479	0.6120		22.3	20.0	11.7	20.0
Trichlorofluoromethane	Ave	0.4782	0.5083	0.1000	21.3	20.0	6.3	20.0
Pentane	Ave	0.0450	0.0482		42.8	40.0	6.9	20.0
Ethanol	QuaF		0.0483		745	800	-6.9	50.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2571	0.2524		19.6	20.0	-1.9	20.0
Ethyl ether	Ave	0.2334	0.2272		19.5	20.0	-2.7	20.0
2-Methyl-1,3-butadiene	Ave	0.2237	0.2370		21.2	20.0	6.0	20.0
Acrolein	Ave	0.8303	0.5688		27.4	40.0	-31.5	50.0
1,1-Dichloroethene	Ave	0.2747	0.2614	0.1000	19.0	20.0	-4.8	20.0
Freon TF	Ave	0.2718	0.2748	0.1000	20.2	20.0	1.1	20.0
Acetone	QuaF		0.2116	0.0500	75.6	100	-24.4	50.0
Iodomethane	Ave	0.2315	0.1625		14.0	20.0	-29.8*	20.0
Carbon disulfide	Ave	0.8215	0.7586	0.1000	18.5	20.0	-7.7	50.0
Isopropyl alcohol	Ave	0.6233	0.5570		179	200	-10.6	50.0
Acetonitrile	Ave	0.3259	0.3043		187	200	-6.6	20.0
Allyl chloride	Ave	0.3692	0.3649		19.8	20.0	-1.2	20.0
Methyl acetate	Ave	1.690	1.452	0.1000	34.4	40.0	-14.1	20.0
Cyclopentene	Ave	0.5933	0.6321		21.3	20.0	6.5	20.0
Methylene Chloride	Ave	0.3386	0.3138	0.1000	18.5	20.0	-7.3	20.0
2-Methyl-2-propanol	QuaF		0.9835		164	200	-18.0	50.0
Acrylonitrile	Ave	0.1113	0.1068		192	200	-4.0	20.0
trans-1,2-Dichloroethene	Ave	0.3070	0.3002	0.1000	19.6	20.0	-2.2	20.0
MTBE	Ave	0.9493	0.8753	0.1000	18.4	20.0	-7.8	20.0
Hexane	Ave	0.2964	0.3343		22.6	20.0	12.8	20.0
1,1-Dichloroethane	Ave	0.4288	0.4246	0.2000	19.8	20.0	-1.0	20.0
Vinyl acetate	Ave	0.5077	0.4543		35.8	40.0	-10.5	20.0
2-Chloro-1,3-butadiene	Ave	0.2418	0.2414		20.0	20.0	-0.2	20.0
Isopropyl ether	Ave	0.7335	0.7488		20.4	20.0	2.1	20.0
Tert-butyl ethyl ether	Ave	0.7449	0.7275		19.5	20.0	-2.3	20.0
cis-1,2-Dichloroethene	Ave	0.3206	0.2975	0.1000	18.6	20.0	-7.2	20.0
2,2-Dichloropropane	Ave	0.0976	0.0890		18.2	20.0	-8.8	20.0
2-Butanone	Ave	0.3385	0.2912	0.0500	86.0	100	-14.0	50.0
Propionitrile	Ave	0.2398	0.2152		179	200	-10.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Lab Sample ID: CCVIS 460-524141/3 Calibration Date: 06/01/2018 00:22

Instrument ID: CVOAMS12 Calib Start Date: 05/24/2018 13:51

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/24/2018 16:43

Lab File ID: O396439.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.3095	0.2532		32.7	40.0	-18.2	20.0
Methyl acrylate	Ave	0.2855	0.2553		17.9	20.0	-10.6	20.0
Methacrylonitrile	Ave	0.1244	0.1206		194	200	-3.1	20.0
Chlorobromomethane	Ave	0.1729	0.1592		18.4	20.0	-7.9	20.0
Tetrahydrofuran	Ave	0.7424	0.6471		34.9	40.0	-12.8	20.0
Chloroform	Ave	0.4626	0.4600	0.2000	19.9	20.0	-0.6	20.0
1,1,1-Trichloroethane	Ave	0.4157	0.4011	0.1000	19.3	20.0	-3.5	20.0
Cyclohexane	Ave	0.3622	0.3455	0.1000	19.1	20.0	-4.6	50.0
Carbon tetrachloride	Ave	0.3704	0.3432	0.1000	18.5	20.0	-7.4	20.0
1,1-Dichloropropene	Ave	0.3501	0.3526		20.1	20.0	0.7	20.0
Isobutyl alcohol	Ave	0.3639	0.2772		381	500	-23.8	50.0
Benzene	Ave	1.115	1.055	0.5000	18.9	20.0	-5.4	20.0
1,2-Dichloroethane	Ave	0.3887	0.3619	0.1000	18.6	20.0	-6.9	20.0
2,2,4-Trimethylpentane	Ave	0.6025	0.5579		18.5	20.0	-7.4	20.0
Isopropyl acetate	Ave	0.1132	0.1022		18.1	20.0	-9.7	20.0
Tert-amyl methyl ether	Ave	0.8625	0.7972		18.5	20.0	-7.6	20.0
n-Heptane	Ave	0.2654	0.2300		17.3	20.0	-13.3	20.0
Trichloroethene	Ave	0.3005	0.2813	0.2000	18.7	20.0	-6.4	20.0
n-Butanol	Ave	0.2627	0.2009		382	500	-23.5	50.0
Ethyl acrylate	Ave	0.3767	0.3319		17.6	20.0	-11.9	20.0
Methylcyclohexane	Ave	0.4262	0.3880	0.1000	18.2	20.0	-9.0	50.0
1,2-Dichloropropane	Ave	0.2619	0.2615	0.1000	20.0	20.0	-0.1	20.0
Dibromomethane	Ave	0.2012	0.1895		18.8	20.0	-5.8	20.0
1,4-Dioxane	Ave	1.121	1.045		373	400	-6.8	50.0
Methyl methacrylate	Ave	0.0976	0.0839		34.4	40.0	-14.0	20.0
n-Propyl acetate	Ave	0.3855	0.3796		19.7	20.0	-1.5	20.0
Bromodichloromethane	Ave	0.3805	0.3659	0.2000	19.2	20.0	-3.8	20.0
2-Nitropropane	Ave	0.0792	0.0662		33.5	40.0	-16.4	20.0
2-Chloroethyl vinyl ether	Ave	0.2184	0.2007		18.4	20.0	-8.1	20.0
Epichlorohydrin	Ave	0.2911	0.2640		363	400	-9.3	20.0
cis-1,3-Dichloropropene	Ave	0.4810	0.4394	0.2000	18.3	20.0	-8.6	50.0
4-Methyl-2-pentanone	Ave	2.431	2.264	0.0500	93.1	100	-6.9	50.0
Toluene	Ave	1.350	1.249	0.4000	18.5	20.0	-7.5	20.0
trans-1,3-Dichloropropene	Ave	0.4654	0.4069	0.1000	17.5	20.0	-12.6	50.0
Ethyl methacrylate	Ave	0.4303	0.3712		17.3	20.0	-13.7	20.0
1,1,2-Trichloroethane	Ave	0.2482	0.2306	0.1000	18.6	20.0	-7.1	20.0
Tetrachloroethene	Ave	0.3810	0.3681	0.2000	19.3	20.0	-3.4	20.0
1,3-Dichloropropane	Ave	0.4824	0.4620		19.2	20.0	-4.2	20.0
2-Hexanone	Ave	1.798	1.595	0.0500	88.7	100	-11.3	50.0
Dibromochloromethane	Ave	0.3795	0.3241	0.1000	17.1	20.0	-14.6	50.0
n-Butyl acetate	Ave	0.4802	0.4286		17.8	20.0	-10.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-524141/3 Calibration Date: 06/01/2018 00:22
 Instrument ID: CVOAMS12 Calib Start Date: 05/24/2018 13:51
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/24/2018 16:43
 Lab File ID: O396439.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Ave	0.3448	0.3081	0.1000	17.9	20.0	-10.7	20.0
Chlorobenzene	Ave	0.9757	0.8745	0.5000	17.9	20.0	-10.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3513	0.3065		17.4	20.0	-12.8	20.0
Ethylbenzene	Ave	0.5017	0.4715	0.1000	18.8	20.0	-6.0	20.0
m-Xylene & p-Xylene	Ave	0.6234	0.5772	0.1000	18.5	20.0	-7.4	20.0
o-Xylene	Ave	0.6188	0.5717	0.3000	18.5	20.0	-7.6	20.0
Styrene	Ave	1.088	0.9845	0.3000	18.1	20.0	-9.5	20.0
n-Butyl acrylate	Ave	0.2594	0.2113		16.3	20.0	-18.5	20.0
Bromoform	Ave	0.2994	0.2553	0.1000	17.1	20.0	-14.7	20.0
Amyl acetate (mixed isomers)	Ave	0.8751	0.7495		17.1	20.0	-14.4	20.0
Isopropylbenzene	Ave	1.510	1.387	0.1000	18.4	20.0	-8.1	20.0
Bromobenzene	Ave	0.7599	0.6895		18.1	20.0	-9.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7027	0.6584	0.3000	18.7	20.0	-6.3	20.0
1,2,3-Trichloropropane	Ave	0.2373	0.2063		17.4	20.0	-13.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2102	0.1626		15.5	20.0	-22.7*	20.0
N-Propylbenzene	Ave	2.655	2.413		18.2	20.0	-9.1	20.0
2-Chlorotoluene	Ave	1.822	1.613		17.7	20.0	-11.5	20.0
4-Ethyltoluene	Ave	2.379	2.099		17.7	20.0	-11.7	20.0
4-Chlorotoluene	Ave	1.839	1.603		17.4	20.0	-12.8	20.0
1,3,5-Trimethylbenzene	Ave	1.899	1.612		17.0	20.0	-15.1	20.0
Butyl Methacrylate	Ave	0.7252	0.5841		16.1	20.0	-19.5	20.0
tert-Butylbenzene	Ave	1.801	1.535		17.0	20.0	-14.8	20.0
1,2,4-Trimethylbenzene	Ave	1.840	1.588		17.3	20.0	-13.7	20.0
sec-Butylbenzene	Ave	2.404	2.082		17.3	20.0	-13.4	20.0
1,3-Dichlorobenzene	Ave	1.398	1.222	0.6000	17.5	20.0	-12.6	20.0
1,4-Dichlorobenzene	Ave	1.461	1.258	0.5000	17.2	20.0	-13.9	20.0
4-Isopropyltoluene	Ave	2.068	1.741		16.8	20.0	-15.8	20.0
1,2,3-Trimethylbenzene	Ave	1.870	1.658		17.7	20.0	-11.3	20.0
Benzyl chloride	Ave	0.3204	0.2535		15.8	20.0	-20.9	50.0
Indan	Ave	2.296	2.052		17.9	20.0	-10.6	20.0
1,2-Dichlorobenzene	Ave	1.362	1.195	0.4000	17.6	20.0	-12.2	20.0
p-Diethylbenzene	Ave	1.044	0.8948		17.1	20.0	-14.3	20.0
n-Butylbenzene	Ave	0.8396	0.7323		17.4	20.0	-12.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1611	0.1275	0.0500	15.8	20.0	-20.9	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.188	1.154		19.4	20.0	-2.9	20.0
1,3,5-Trichlorobenzene	Ave	0.7287	0.6763		18.6	20.0	-7.2	20.0
1,2,4-Trichlorobenzene	Ave	0.6397	0.6041	0.2000	18.9	20.0	-5.6	20.0
Hexachlorobutadiene	Ave	0.3590	0.3319		18.5	20.0	-7.6	20.0
Naphthalene	Ave	1.358	1.330		19.6	20.0	-2.0	50.0
1,2,3-Trichlorobenzene	Ave	0.5933	0.5613		18.9	20.0	-5.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2464	0.2341		47.5	50.0	-5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-524141/3 Calibration Date: 06/01/2018 00:22
 Instrument ID: CVOAMS12 Calib Start Date: 05/24/2018 13:51
 GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/24/2018 16:43
 Lab File ID: O396439.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	Ave	0.2676	0.2447		45.7	50.0	-8.6	20.0
Toluene-d8 (Surr)	Ave	1.085	0.9828		45.3	50.0	-9.4	20.0
Bromofluorobenzene	Ave	0.4625	0.4789		51.8	50.0	3.6	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396439.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 01-Jun-2018 00:22:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 460-0072999-003
 Operator ID: Instrument ID: CVOAMS12
 Sublist: chrom-8260W_12*sub10
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 01:42:42 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: parekhv

Date: 01-Jun-2018 01:00:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	88	22278	20.0	13.2	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	98	56143	20.0	16.5	
4 Vinyl chloride	62	1.071	1.071	0.000	98	58693	20.0	20.1	
3 Chloromethane	50	1.092	1.092	0.000	47	71538	20.0	18.9	
5 Butadiene	54	1.092	1.092	0.000	95	50395	20.0	19.4	
6 Bromomethane	94	1.250	1.250	0.000	99	29879	20.0	20.0	
7 Chloroethane	64	1.307	1.307	0.000	99	33839	20.0	19.9	
8 Dichlorofluoromethane	67	1.428	1.428	0.000	98	115827	20.0	22.3	
9 Trichlorofluoromethane	101	1.457	1.457	0.000	99	96209	20.0	21.3	
10 Pentane	72	1.500	1.500	0.000	96	18228	40.0	42.8	
11 Ethanol	46	1.593	1.593	0.000	98	13298	800.0	745.0	
13 Ethyl ether	59	1.636	1.636	0.000	94	42998	20.0	19.5	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	91	47767	20.0	19.6	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	98	44858	20.0	21.2	
15 Acrolein	56	1.707	1.707	0.000	93	7832	40.0	27.4	
16 1,1-Dichloroethene	96	1.764	1.764	0.000	97	49465	20.0	19.0	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	96	52000	20.0	20.2	
18 Acetone	58	1.807	1.807	0.000	87	23801	100.0	75.6	
19 Iodomethane	127	1.857	1.857	0.000	98	30748	20.0	14.0	
20 Carbon disulfide	76	1.900	1.900	0.000	99	143576	20.0	18.5	
21 Isopropyl alcohol	45	1.907	1.907	0.000	98	38348	200.0	178.7	
22 Acetonitrile	38	1.986	1.986	0.000	80	20949	200.0	186.7	
23 3-Chloro-1-propene	39	1.986	1.986	0.000	89	69055	20.0	19.8	
24 Methyl acetate	74	2.015	2.015	0.000	98	19991	40.0	34.4	
25 Cyclopentene	67	2.043	2.043	0.000	95	119633	20.0	21.3	
26 Methylene Chloride	84	2.072	2.072	0.000	89	59382	20.0	18.5	
* 27 TBA-d9 (IS)	65	2.122	2.122	0.000	0	344222	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.179	2.179	0.000	99	67705	200.0	164.1	
29 Acrylonitrile	53	2.236	2.236	0.000	94	202167	200.0	192.0	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	92	56813	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.272	2.272	0.000	96	165658	20.0	18.4	
32 Hexane	57	2.458	2.458	0.000	91	63262	20.0	22.6	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	100	80365	20.0	19.8	
34 Vinyl acetate	86	2.601	2.601	0.000	99	20445	40.0	35.8	
35 2-Chloro-1,3-butadiene	88	2.622	2.622	0.000	93	45689	20.0	20.0	
36 Isopropyl ether	45	2.622	2.622	0.000	87	141715	20.0	20.4	
37 Tert-butyl ethyl ether	59	2.901	2.901	0.000	90	137691	20.0	19.5	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	281272	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.994	2.994	0.000	96	56301	20.0	18.6	
39 2,2-Dichloropropane	97	3.001	3.001	0.000	83	16846	20.0	18.2	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	99	32760	100.0	86.0	
42 Propionitrile	52	3.059	3.059	0.000	96	14816	200.0	179.5	
43 Ethyl acetate	70	3.080	3.080	0.000	100	11396	40.0	32.7	
44 Methyl acrylate	55	3.109	3.109	0.000	99	48313	20.0	17.9	
45 Methacrylonitrile	67	3.187	3.187	0.000	90	228273	200.0	193.9	
46 Chlorobromomethane	128	3.194	3.194	0.000	49	30129	20.0	18.4	
47 Tetrahydrofuran	42	3.245	3.245	0.000	90	29122	40.0	34.9	
48 Chloroform	83	3.266	3.266	0.000	99	87058	20.0	19.9	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	110778	50.0	47.5	
50 1,1,1-Trichloroethane	97	3.423	3.423	0.000	98	75907	20.0	19.3	
51 Cyclohexane	84	3.473	3.473	0.000	90	65385	20.0	19.1	
53 Carbon tetrachloride	117	3.566	3.566	0.000	95	64950	20.0	18.5	
52 1,1-Dichloropropene	75	3.573	3.573	0.000	95	66727	20.0	20.1	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	115772	50.0	45.7	
55 Isobutyl alcohol	43	3.731	3.731	0.000	98	47711	500.0	380.9	a
56 Benzene	78	3.759	3.759	0.000	95	191297	20.0	18.9	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	68494	20.0	18.6	
58 Isooctane	57	3.859	3.859	0.000	98	105594	20.0	18.5	
59 Isopropyl acetate	61	3.867	3.867	0.000	98	19341	20.0	18.1	
60 Tert-amyl methyl ether	73	3.888	3.888	0.000	97	150883	20.0	18.5	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	473166	50.0	50.0	
62 n-Heptane	43	4.045	4.045	0.000	90	43539	20.0	17.3	
64 Trichloroethene	95	4.396	4.396	0.000	96	53244	20.0	18.7	
63 n-Butanol	56	4.410	4.410	0.000	89	34581	500.0	382.4	
65 Ethyl acrylate	55	4.553	4.553	0.000	98	62815	20.0	17.6	
66 Methylcyclohexane	83	4.596	4.596	0.000	95	73435	20.0	18.2	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	92	49498	20.0	20.0	
69 Dibromomethane	93	4.746	4.746	0.000	92	35874	20.0	18.8	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	41429	1000.0	1000.0	
70 1,4-Dioxane	88	4.803	4.803	0.000	30	17310	400.0	372.8	
71 Methyl methacrylate	100	4.803	4.803	0.000	84	31744	40.0	34.4	
72 n-Propyl acetate	43	4.889	4.889	0.000	98	71848	20.0	19.7	
73 Dichlorobromomethane	83	4.939	4.939	0.000	99	69254	20.0	19.2	
74 2-Nitropropane	41	5.204	5.204	0.000	99	25063	40.0	33.5	
75 2-Chloroethyl vinyl ether	63	5.325	5.325	0.000	95	37983	20.0	18.4	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	118798	400.0	362.7	
77 cis-1,3-Dichloropropene	75	5.468	5.468	0.000	94	79706	20.0	18.3	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	96	254726	100.0	93.1	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	445684	50.0	45.3	
80 Toluene	91	5.869	5.869	0.000	93	226567	20.0	18.5	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	98	73810	20.0	17.5	
82 Ethyl methacrylate	69	6.362	6.362	0.000	88	67336	20.0	17.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.398	6.398	0.000	93	41823	20.0	18.6	
84 Tetrachloroethene	166	6.569	6.569	0.000	97	66778	20.0	19.3	
85 1,3-Dichloropropane	76	6.612	6.612	0.000	92	83795	20.0	19.2	
86 2-Hexanone	43	6.798	6.798	0.000	95	179493	100.0	88.7	
87 Chlorodibromomethane	129	6.905	6.905	0.000	98	58782	20.0	17.1	
88 n-Butyl acetate	43	7.020	7.020	0.000	99	77737	20.0	17.8	
89 Ethylene Dibromide	107	7.034	7.034	0.000	99	55878	20.0	17.9	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	85	453484	50.0	50.0	
91 Chlorobenzene	112	7.763	7.763	0.000	97	158636	20.0	17.9	
92 1,1,1,2-Tetrachloroethane	131	7.906	7.906	0.000	94	55591	20.0	17.4	
93 Ethylbenzene	106	7.971	7.971	0.000	98	85518	20.0	18.8	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	104707	20.0	18.5	
95 o-Xylene	106	8.743	8.743	0.000	94	103693	20.0	18.5	
96 Styrene	104	8.772	8.772	0.000	96	178581	20.0	18.1	
97 n-Butyl acrylate	73	8.829	8.829	0.000	97	38326	20.0	16.3	
98 Bromoform	173	8.993	8.993	0.000	96	46310	20.0	17.1	
99 Amyl acetate (mixed isomer	43	9.215	9.215	0.000	91	87807	20.0	17.1	
100 Isopropylbenzene	105	9.351	9.351	0.000	96	251594	20.0	18.4	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	217168	50.0	51.8	
102 Bromobenzene	156	9.737	9.737	0.000	90	80783	20.0	18.1	
103 1,1,2,2-Tetrachloroethane	83	9.851	9.851	0.000	97	77130	20.0	18.7	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	96	24167	20.0	17.4	
105 trans-1,4-Dichloro-2-buten	53	9.951	9.951	0.000	91	19048	20.0	15.5	
106 N-Propylbenzene	91	10.016	10.016	0.000	100	282693	20.0	18.2	
107 2-Chlorotoluene	91	10.087	10.087	0.000	97	188935	20.0	17.7	
108 4-Ethyltoluene	105	10.216	10.216	0.000	99	245954	20.0	17.7	
109 4-Chlorotoluene	91	10.280	10.280	0.000	95	187798	20.0	17.4	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	93	188842	20.0	17.0	
111 Butyl Methacrylate	87	10.616	10.616	0.000	90	68431	20.0	16.1	
112 tert-Butylbenzene	119	10.852	10.852	0.000	97	179782	20.0	17.0	
113 1,2,4-Trimethylbenzene	105	10.938	10.938	0.000	97	185984	20.0	17.3	
114 sec-Butylbenzene	105	11.210	11.210	0.000	98	243910	20.0	17.3	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	96	143139	20.0	17.5	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	94	292887	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.439	11.439	0.000	96	147380	20.0	17.2	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	97	203976	20.0	16.8	
119 1,2,3-Trimethylbenzene	105	11.560	11.560	0.000	98	194264	20.0	17.7	
120 Benzyl chloride	126	11.653	11.653	0.000	99	29704	20.0	15.8	
121 2,3-Dihydroindene	117	11.789	11.789	0.000	94	240458	20.0	17.9	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	97	140053	20.0	17.6	
123 p-Diethylbenzene	119	11.968	11.968	0.000	93	104834	20.0	17.1	
124 n-Butylbenzene	92	11.996	11.996	0.000	97	85797	20.0	17.4	
125 1,2-Dibromo-3-Chloropropan	75	12.797	12.797	0.000	92	14934	20.0	15.8	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	97	135141	20.0	19.4	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	97	79237	20.0	18.6	
128 1,2,4-Trichlorobenzene	180	13.577	13.577	0.000	94	70777	20.0	18.9	
129 Hexachlorobutadiene	225	13.748	13.748	0.000	96	38882	20.0	18.5	
130 Naphthalene	128	13.770	13.770	0.000	99	155863	20.0	19.6	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	95	65762	20.0	18.9	
S 132 1,2-Dichloroethene, Total	100				0		40.0	38.1	
S 133 Xylenes, Total	100				0		40.0	37.0	
S 134 Total BTEX	1				0		100.0	93.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00080	Amount Added: 20.00	Units: uL	
ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
GASES Li_00262	Amount Added: 20.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180531-72999.b\\O396439.D

Injection Date: 01-Jun-2018 00:22:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

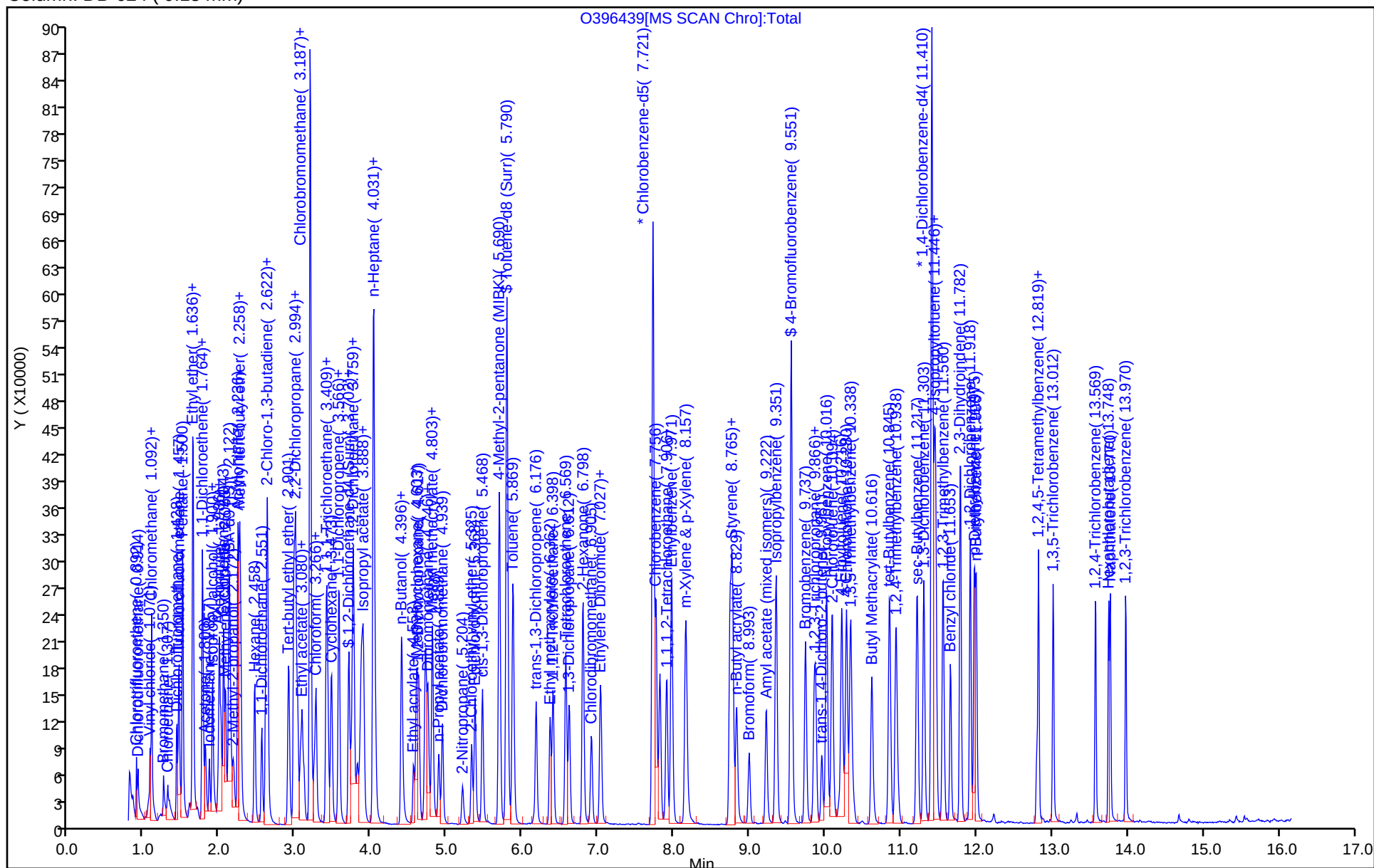
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396439.D

Injection Date: 01-Jun-2018 00:22:30

Instrument ID: CVOAMS12

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#: 3

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

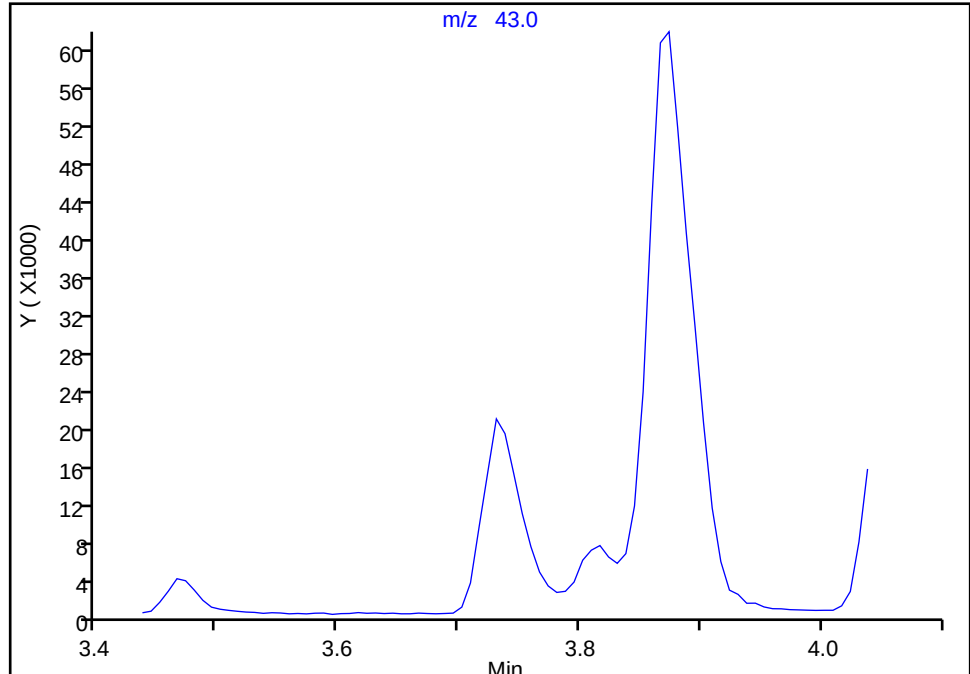
55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

Not Detected

Expected RT: 3.73

Processing Integration Results



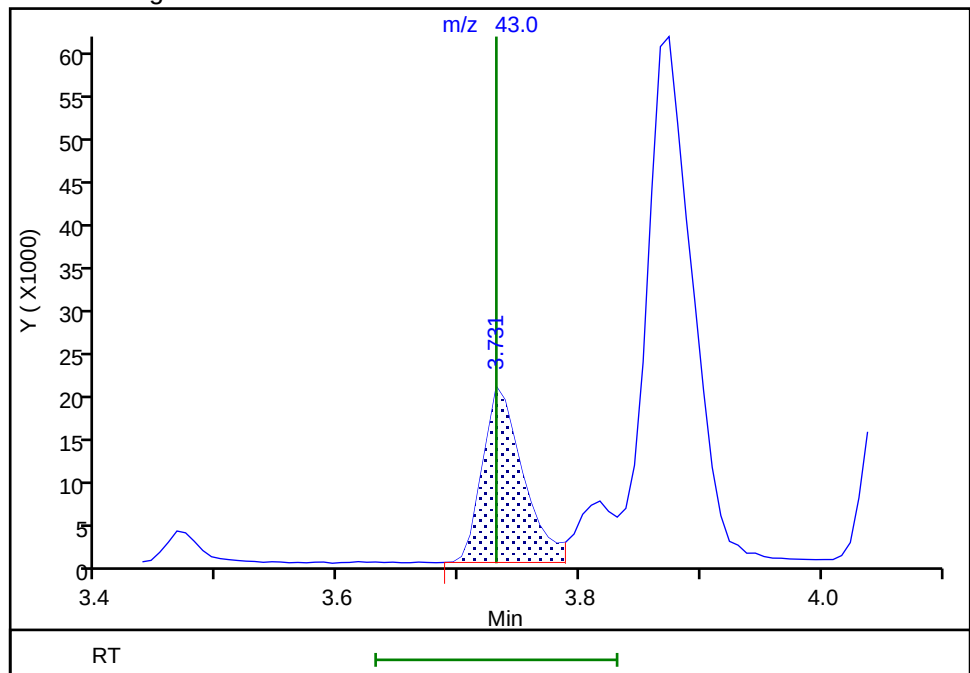
RT: 3.73

Area: 47711

Amount: 380.8854

Amount Units: ug/l

Manual Integration Results



Reviewer: parekhv, 01-Jun-2018 00:59:16

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Lab Sample ID: CCVIS 460-524327/2 Calibration Date: 06/01/2018 11:46

Instrument ID: CVOAMS12 Calib Start Date: 05/24/2018 13:51

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/24/2018 16:43

Lab File ID: O396463.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	1.500	1.313		17.5	20.0	-12.4	20.0
Dichlorodifluoromethane	Ave	0.3592	0.3400	0.1000	18.9	20.0	-5.3	20.0
Vinyl chloride	Ave	0.3083	0.3111	0.1000	20.2	20.0	0.9	20.0
Butadiene	Ave	0.2739	0.2665		19.5	20.0	-2.7	20.0
Chloromethane	Ave	0.3992	0.3803	0.1000	19.1	20.0	-4.7	20.0
Bromomethane	QuaF		2.799	0.1000	42.3	20.0	111.3*	50.0
Chloroethane	QuaF		0.2045	0.1000	22.8	20.0	13.8	50.0
Dichlorofluoromethane	Ave	0.5479	0.5304		19.4	20.0	-3.2	20.0
Trichlorofluoromethane	Ave	0.4782	0.4891	0.1000	20.5	20.0	2.3	20.0
Pentane	Ave	0.0450	0.0438		38.9	40.0	-2.8	20.0
Ethanol	QuaF		0.0507		783	800	-2.2	50.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2571	0.2742		21.3	20.0	6.6	20.0
Ethyl ether	Ave	0.2334	0.2211		18.9	20.0	-5.3	20.0
2-Methyl-1,3-butadiene	Ave	0.2237	0.2227		19.9	20.0	-0.4	20.0
Acrolein	Ave	0.8303	0.3369		16.2	40.0	-59.4*	50.0
1,1-Dichloroethene	Ave	0.2747	0.2725	0.1000	19.8	20.0	-0.8	20.0
Freon TF	Ave	0.2718	0.2992	0.1000	22.0	20.0	10.1	20.0
Acetone	QuaF		0.2529	0.0500	90.6	100	-9.4	50.0
Iodomethane	Ave	0.2315	0.1660		14.3	20.0	-28.3*	20.0
Isopropyl alcohol	Ave	0.6233	0.5588		179	200	-10.4	50.0
Carbon disulfide	Ave	0.8215	0.8130	0.1000	19.8	20.0	-1.0	50.0
Acetonitrile	Ave	0.3259	0.3254		200	200	-0.2	20.0
Allyl chloride	Ave	0.3692	0.3346		18.1	20.0	-9.4	20.0
Methyl acetate	Ave	1.690	1.718	0.1000	40.7	40.0	1.6	20.0
Cyclopentene	Ave	0.5933	0.6436		21.7	20.0	8.5	20.0
Methylene Chloride	Ave	0.3386	0.3219	0.1000	19.0	20.0	-4.9	20.0
2-Methyl-2-propanol	QuaF		1.148		192	200	-4.2	50.0
Acrylonitrile	Ave	0.1113	0.0998		179	200	-10.3	20.0
trans-1,2-Dichloroethene	Ave	0.3070	0.3142	0.1000	20.5	20.0	2.3	20.0
MTBE	Ave	0.9493	0.8795	0.1000	18.5	20.0	-7.4	20.0
Hexane	Ave	0.2964	0.3522		23.8	20.0	18.8	20.0
1,1-Dichloroethane	Ave	0.4288	0.4190	0.2000	19.5	20.0	-2.3	20.0
Vinyl acetate	Ave	0.5077	0.5877		46.3	40.0	15.8	20.0
2-Chloro-1,3-butadiene	Ave	0.2418	0.2523		20.9	20.0	4.3	20.0
Isopropyl ether	Ave	0.7335	0.6920		18.9	20.0	-5.7	20.0
Tert-butyl ethyl ether	Ave	0.7449	0.7086		19.0	20.0	-4.9	20.0
2,2-Dichloropropane	Ave	0.0976	0.0948		19.4	20.0	-2.9	20.0
cis-1,2-Dichloroethene	Ave	0.3206	0.3321	0.1000	20.7	20.0	3.6	20.0
2-Butanone	Ave	0.3385	0.3460	0.0500	102	100	2.2	50.0
Propionitrile	Ave	0.2398	0.2410		201	200	0.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Lab Sample ID: CCVIS 460-524327/2 Calibration Date: 06/01/2018 11:46

Instrument ID: CVOAMS12 Calib Start Date: 05/24/2018 13:51

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/24/2018 16:43

Lab File ID: O396463.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.3095	0.2881		37.2	40.0	-6.9	20.0
Methyl acrylate	Ave	0.2855	0.2305		16.1	20.0	-19.3	20.0
Methacrylonitrile	Ave	0.1244	0.1182		190	200	-5.0	20.0
Chlorobromomethane	Ave	0.1729	0.1749		20.2	20.0	1.1	20.0
Tetrahydrofuran	Ave	0.7424	0.7038		37.9	40.0	-5.2	20.0
Chloroform	Ave	0.4626	0.4698	0.2000	20.3	20.0	1.6	20.0
1,1,1-Trichloroethane	Ave	0.4157	0.4188	0.1000	20.1	20.0	0.7	20.0
Cyclohexane	Ave	0.3622	0.3790	0.1000	20.9	20.0	4.7	50.0
Carbon tetrachloride	Ave	0.3704	0.3851	0.1000	20.8	20.0	4.0	20.0
1,1-Dichloropropene	Ave	0.3501	0.3573		20.4	20.0	2.1	20.0
Isobutyl alcohol	Ave	0.3639	0.2808		386	500	-22.8	50.0
Benzene	Ave	1.115	1.064	0.5000	19.1	20.0	-4.6	20.0
1,2-Dichloroethane	Ave	0.3887	0.3463	0.1000	17.8	20.0	-10.9	20.0
2,2,4-Trimethylpentane	Ave	0.6025	0.5889		19.5	20.0	-2.3	20.0
Isopropyl acetate	Ave	0.1132	0.0939		16.6	20.0	-17.1	20.0
Tert-amyl methyl ether	Ave	0.8625	0.7696		17.8	20.0	-10.8	20.0
n-Heptane	Ave	0.2654	0.2434		18.3	20.0	-8.3	20.0
n-Butanol	Ave	0.2627	0.2109		401	500	-19.7	50.0
Trichloroethene	Ave	0.3005	0.2964	0.2000	19.7	20.0	-1.4	20.0
Ethyl acrylate	Ave	0.3767	0.3070		16.3	20.0	-18.5	20.0
Methylcyclohexane	Ave	0.4262	0.4430	0.1000	20.8	20.0	3.9	50.0
1,2-Dichloropropane	Ave	0.2619	0.2560	0.1000	19.5	20.0	-2.3	20.0
Dibromomethane	Ave	0.2012	0.1963		19.5	20.0	-2.4	20.0
1,4-Dioxane	Ave	1.121	1.123		401	400	0.2	50.0
Methyl methacrylate	Ave	0.0976	0.0883		36.2	40.0	-9.5	20.0
n-Propyl acetate	Ave	0.3855	0.3260		16.9	20.0	-15.4	20.0
Bromodichloromethane	Ave	0.3805	0.3814	0.2000	20.0	20.0	0.2	20.0
2-Nitropropane	Ave	0.0792	0.0628		31.7	40.0	-20.7*	20.0
2-Chloroethyl vinyl ether	Ave	0.2184	0.2001		18.3	20.0	-8.4	20.0
Epichlorohydrin	Ave	0.2911	0.2946		405	400	1.2	20.0
cis-1,3-Dichloropropene	Ave	0.4810	0.4384	0.2000	18.2	20.0	-8.9	50.0
4-Methyl-2-pentanone	Ave	2.431	2.449	0.0500	101	100	0.8	50.0
Toluene	Ave	1.350	1.304	0.4000	19.3	20.0	-3.4	20.0
trans-1,3-Dichloropropene	Ave	0.4654	0.4086	0.1000	17.6	20.0	-12.2	50.0
Ethyl methacrylate	Ave	0.4303	0.3582		16.7	20.0	-16.7	20.0
1,1,2-Trichloroethane	Ave	0.2482	0.2235	0.1000	18.0	20.0	-10.0	20.0
Tetrachloroethene	Ave	0.3810	0.4151	0.2000	21.8	20.0	8.9	20.0
1,3-Dichloropropane	Ave	0.4824	0.4508		18.7	20.0	-6.6	20.0
2-Hexanone	Ave	1.798	1.714	0.0500	95.3	100	-4.7	50.0
Dibromochloromethane	Ave	0.3795	0.3551	0.1000	18.7	20.0	-6.4	50.0
n-Butyl acetate	Ave	0.4802	0.3719		15.5	20.0	-22.6*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Lab Sample ID: CCVIS 460-524327/2 Calibration Date: 06/01/2018 11:46

Instrument ID: CVOAMS12 Calib Start Date: 05/24/2018 13:51

GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/24/2018 16:43

Lab File ID: O396463.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Ave	0.3448	0.3164	0.1000	18.4	20.0	-8.2	20.0
Chlorobenzene	Ave	0.9757	0.9253	0.5000	19.0	20.0	-5.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3513	0.3339		19.0	20.0	-4.9	20.0
Ethylbenzene	Ave	0.5017	0.5034	0.1000	20.1	20.0	0.4	20.0
m-Xylene & p-Xylene	Ave	0.6234	0.6212	0.1000	19.9	20.0	-0.4	20.0
o-Xylene	Ave	0.6188	0.6075	0.3000	19.6	20.0	-1.8	20.0
Styrene	Ave	1.088	1.041	0.3000	19.1	20.0	-4.3	20.0
n-Butyl acrylate	Ave	0.2594	0.2077		16.0	20.0	-20.0	20.0
Bromoform	Ave	0.2994	0.2821	0.1000	18.8	20.0	-5.8	20.0
Amyl acetate (mixed isomers)	Ave	0.8751	0.6655		15.2	20.0	-24.0*	20.0
Isopropylbenzene	Ave	1.510	1.483	0.1000	19.6	20.0	-1.8	20.0
Bromobenzene	Ave	0.7599	0.7511		19.8	20.0	-1.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7027	0.6203	0.3000	17.7	20.0	-11.7	20.0
1,2,3-Trichloropropane	Ave	0.2373	0.2063		17.4	20.0	-13.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2102	0.1513		14.4	20.0	-28.0*	20.0
N-Propylbenzene	Ave	2.655	2.466		18.6	20.0	-7.1	20.0
2-Chlorotoluene	Ave	1.822	1.685		18.5	20.0	-7.5	20.0
4-Ethyltoluene	Ave	2.379	2.208		18.6	20.0	-7.2	20.0
4-Chlorotoluene	Ave	1.839	1.809		19.7	20.0	-1.6	20.0
1,3,5-Trimethylbenzene	Ave	1.899	1.705		18.0	20.0	-10.2	20.0
Butyl Methacrylate	Ave	0.7252	0.5807		16.0	20.0	-19.9	20.0
tert-Butylbenzene	Ave	1.801	1.663		18.5	20.0	-7.7	20.0
1,2,4-Trimethylbenzene	Ave	1.840	1.639		17.8	20.0	-11.0	20.0
sec-Butylbenzene	Ave	2.404	2.200		18.3	20.0	-8.5	20.0
1,3-Dichlorobenzene	Ave	1.398	1.316	0.6000	18.8	20.0	-5.8	20.0
1,4-Dichlorobenzene	Ave	1.461	1.358	0.5000	18.6	20.0	-7.0	20.0
4-Isopropyltoluene	Ave	2.068	1.907		18.4	20.0	-7.8	20.0
1,2,3-Trimethylbenzene	Ave	1.870	1.682		18.0	20.0	-10.0	20.0
Benzyl chloride	Ave	0.3204	0.2753		17.2	20.0	-14.1	50.0
Indan	Ave	2.296	2.170		18.9	20.0	-5.5	20.0
1,2-Dichlorobenzene	Ave	1.362	1.264	0.4000	18.6	20.0	-7.2	20.0
p-Diethylbenzene	Ave	1.044	0.9720		18.6	20.0	-6.9	20.0
n-Butylbenzene	Ave	0.8396	0.7559		18.0	20.0	-10.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1611	0.1218	0.0500	15.1	20.0	-24.4	50.0
1,2,4,5-Tetramethylbenzene	Ave	1.188	1.262		21.2	20.0	6.2	20.0
1,3,5-Trichlorobenzene	Ave	0.7287	0.7647		21.0	20.0	4.9	20.0
1,2,4-Trichlorobenzene	Ave	0.6397	0.6829	0.2000	21.4	20.0	6.8	20.0
Hexachlorobutadiene	Ave	0.3590	0.3996		22.3	20.0	11.3	20.0
Naphthalene	Ave	1.358	1.336		19.7	20.0	-1.6	50.0
1,2,3-Trichlorobenzene	Ave	0.5933	0.6287		21.2	20.0	6.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2464	0.2290		46.5	50.0	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCVIS 460-524327/2 Calibration Date: 06/01/2018 11:46
Instrument ID: CVOAMS12 Calib Start Date: 05/24/2018 13:51
GC Column: DB-624 ID: 0.18 (mm) Calib End Date: 05/24/2018 16:43
Lab File ID: O396463.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	Ave	0.2676	0.2194		41.0	50.0	-18.0	20.0
Toluene-d8 (Surr)	Ave	1.085	0.9542		44.0	50.0	-12.1	20.0
Bromofluorobenzene	Ave	0.4625	0.4984		53.9	50.0	7.8	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396463.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 01-Jun-2018 11:46:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 460-0073036-002
 Operator ID: Instrument ID: CVOAMS12
 Sublist: chrom-8260W_12*sub10
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 19:11:03 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: martineze

Date: 01-Jun-2018 19:11:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	92	30990	20.0	17.5	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	98	82384	20.0	18.9	
4 Vinyl chloride	62	1.071	1.071	0.000	97	75387	20.0	20.2	
3 Chloromethane	50	1.092	1.092	0.000	99	92150	20.0	19.1	
5 Butadiene	54	1.092	1.092	0.000	94	64575	20.0	19.5	
6 Bromomethane	94	1.257	1.257	0.000	99	66039	20.0	42.3	
7 Chloroethane	64	1.314	1.314	0.000	99	49562	20.0	22.8	
8 Dichlorofluoromethane	67	1.428	1.428	0.000	98	128528	20.0	19.4	
9 Trichlorofluoromethane	101	1.457	1.457	0.000	99	118511	20.0	20.5	
10 Pentane	72	1.507	1.507	0.000	95	21220	40.0	38.9	
11 Ethanol	46	1.579	1.579	0.000	96	14666	800.0	782.5	
13 Ethyl ether	59	1.636	1.636	0.000	92	53570	20.0	18.9	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	93	66430	20.0	21.3	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	96	53958	20.0	19.9	
15 Acrolein	56	1.700	1.700	0.000	90	4873	40.0	16.2	
16 1,1-Dichloroethene	96	1.765	1.765	0.000	96	66018	20.0	19.8	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	95	72490	20.0	22.0	
18 Acetone	58	1.800	1.800	0.000	88	29838	100.0	90.6	
19 Iodomethane	127	1.858	1.858	0.000	98	40232	20.0	14.3	
21 Isopropyl alcohol	45	1.893	1.893	0.000	97	40406	200.0	179.3	
20 Carbon disulfide	76	1.900	1.900	0.000	99	197012	20.0	19.8	
22 Acetonitrile	38	1.986	1.986	0.000	90	23529	200.0	199.6	
23 3-Chloro-1-propene	39	1.993	1.993	0.000	92	81080	20.0	18.1	
24 Methyl acetate	74	2.008	2.008	0.000	98	24845	40.0	40.7	
25 Cyclopentene	67	2.051	2.051	0.000	95	155943	20.0	21.7	
26 Methylene Chloride	84	2.072	2.072	0.000	85	78001	20.0	19.0	
* 27 TBA-d9 (IS)	65	2.101	2.101	0.000	0	361573	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.158	2.158	0.000	99	82981	200.0	191.6	
29 Acrylonitrile	53	2.229	2.229	0.000	95	241813	200.0	179.4	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	91	76124	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	96	213111	20.0	18.5	
32 Hexane	57	2.458	2.458	0.000	91	85336	20.0	23.8	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	100	101537	20.0	19.5	
34 Vinyl acetate	86	2.601	2.601	0.000	99	27733	40.0	46.3	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	76	61124	20.0	20.9	
36 Isopropyl ether	45	2.623	2.623	0.000	85	167671	20.0	18.9	
37 Tert-butyl ethyl ether	59	2.901	2.901	0.000	91	171709	20.0	19.0	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	294936	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.002	3.002	0.000	98	80475	20.0	20.7	
39 2,2-Dichloropropane	97	3.002	3.002	0.000	83	22979	20.0	19.4	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	98	40818	100.0	102.2	
42 Propionitrile	52	3.059	3.059	0.000	98	17427	200.0	201.0	
43 Ethyl acetate	70	3.080	3.080	0.000	100	13596	40.0	37.2	
44 Methyl acrylate	55	3.109	3.109	0.000	99	55861	20.0	16.1	
45 Methacrylonitrile	67	3.187	3.187	0.000	87	286507	200.0	190.1	
46 Chlorobromomethane	128	3.195	3.195	0.000	51	42374	20.0	20.2	
47 Tetrahydrofuran	42	3.245	3.245	0.000	79	33211	40.0	37.9	
48 Chloroform	83	3.266	3.266	0.000	99	113832	20.0	20.3	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	138703	50.0	46.5	
50 1,1,1-Trichloroethane	97	3.423	3.423	0.000	97	101478	20.0	20.1	
51 Cyclohexane	84	3.473	3.473	0.000	88	91846	20.0	20.9	
53 Carbon tetrachloride	117	3.566	3.566	0.000	96	93323	20.0	20.8	
52 1,1-Dichloropropene	75	3.574	3.574	0.000	96	86574	20.0	20.4	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	132908	50.0	41.0	
55 Isobutyl alcohol	43	3.724	3.724	0.000	98	50761	500.0	385.8	
56 Benzene	78	3.759	3.759	0.000	95	253675	20.0	19.1	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	83903	20.0	17.8	
58 Isooctane	57	3.860	3.860	0.000	97	142710	20.0	19.5	
59 Isopropyl acetate	61	3.867	3.867	0.000	97	22743	20.0	16.6	
60 Tert-amyl methyl ether	73	3.888	3.888	0.000	91	186487	20.0	17.8	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	605788	50.0	50.0	
62 n-Heptane	43	4.053	4.053	0.000	86	58984	20.0	18.3	
63 n-Butanol	56	4.389	4.389	0.000	90	38126	500.0	401.4	
64 Trichloroethene	95	4.396	4.396	0.000	94	71814	20.0	19.7	
65 Ethyl acrylate	55	4.553	4.553	0.000	98	74398	20.0	16.3	
66 Methylcyclohexane	83	4.603	4.603	0.000	90	107337	20.0	20.8	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	91	62024	20.0	19.5	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	48498	1000.0	1000.0	
69 Dibromomethane	93	4.746	4.746	0.000	88	47559	20.0	19.5	
70 1,4-Dioxane	88	4.803	4.803	0.000	33	21789	400.0	400.8	a
71 Methyl methacrylate	100	4.803	4.803	0.000	80	42796	40.0	36.2	
72 n-Propyl acetate	43	4.889	4.889	0.000	96	78986	20.0	16.9	
73 Dichlorobromomethane	83	4.939	4.939	0.000	99	92410	20.0	20.0	
74 2-Nitropropane	41	5.204	5.204	0.000	99	30413	40.0	31.7	
75 2-Chloroethyl vinyl ether	63	5.325	5.325	0.000	94	48493	20.0	18.3	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	139022	400.0	404.8	
77 cis-1,3-Dichloropropene	75	5.468	5.468	0.000	92	104522	20.0	18.2	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	95	288970	100.0	100.8	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	568771	50.0	44.0	
80 Toluene	91	5.876	5.876	0.000	93	310905	20.0	19.3	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	96	97413	20.0	17.6	
82 Ethyl methacrylate	69	6.362	6.362	0.000	86	85413	20.0	16.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.398	6.398	0.000	94	53278	20.0	18.0	
84 Tetrachloroethene	166	6.570	6.570	0.000	96	98957	20.0	21.8	
85 1,3-Dichloropropane	76	6.612	6.612	0.000	91	107475	20.0	18.7	
86 2-Hexanone	43	6.791	6.791	0.000	94	202177	100.0	95.3	
87 Chlorodibromomethane	129	6.906	6.906	0.000	97	84667	20.0	18.7	
88 n-Butyl acetate	43	7.027	7.027	0.000	98	88657	20.0	15.5	
89 Ethylene Dibromide	107	7.034	7.034	0.000	99	75441	20.0	18.4	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	83	596061	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	98	220615	20.0	19.0	
92 1,1,1,2-Tetrachloroethane	131	7.907	7.907	0.000	94	79604	20.0	19.0	
93 Ethylbenzene	106	7.971	7.971	0.000	97	120028	20.0	20.1	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	148107	20.0	19.9	
95 o-Xylene	106	8.743	8.743	0.000	95	144852	20.0	19.6	
96 Styrene	104	8.772	8.772	0.000	97	248158	20.0	19.1	
97 n-Butyl acrylate	73	8.829	8.829	0.000	98	49509	20.0	16.0	
98 Bromoform	173	8.993	8.993	0.000	95	67256	20.0	18.8	
99 Amyl acetate (mixed isomer	43	9.222	9.222	0.000	92	103088	20.0	15.2	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	353676	20.0	19.6	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	95	297091	50.0	53.9	
102 Bromobenzene	156	9.744	9.744	0.000	86	116347	20.0	19.8	
103 1,1,2,2-Tetrachloroethane	83	9.851	9.851	0.000	97	96087	20.0	17.7	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	95	31956	20.0	17.4	
105 trans-1,4-Dichloro-2-buten	53	9.959	9.959	0.000	92	23432	20.0	14.4	
106 N-Propylbenzene	91	10.016	10.016	0.000	99	381973	20.0	18.6	
107 2-Chlorotoluene	91	10.095	10.095	0.000	96	261056	20.0	18.5	
108 4-Ethyltoluene	105	10.216	10.216	0.000	98	342054	20.0	18.6	
109 4-Chlorotoluene	91	10.280	10.280	0.000	94	280245	20.0	19.7	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	94	264135	20.0	18.0	
111 Butyl Methacrylate	87	10.617	10.617	0.000	87	89955	20.0	16.0	
112 tert-Butylbenzene	119	10.853	10.853	0.000	96	257539	20.0	18.5	
113 1,2,4-Trimethylbenzene	105	10.938	10.938	0.000	96	253846	20.0	17.8	
114 sec-Butylbenzene	105	11.217	11.217	0.000	98	340788	20.0	18.3	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	98	203897	20.0	18.8	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	387262	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.446	11.446	0.000	96	210387	20.0	18.6	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	97	295349	20.0	18.4	
119 1,2,3-Trimethylbenzene	105	11.560	11.560	0.000	97	260537	20.0	18.0	
120 Benzyl chloride	126	11.653	11.653	0.000	100	42645	20.0	17.2	
121 2,3-Dihydroindene	117	11.789	11.789	0.000	94	336210	20.0	18.9	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	98	195844	20.0	18.6	
123 p-Diethylbenzene	119	11.968	11.968	0.000	95	150560	20.0	18.6	
124 n-Butylbenzene	92	11.997	11.997	0.000	96	117087	20.0	18.0	
125 1,2-Dibromo-3-Chloropropan	75	12.797	12.797	0.000	89	18868	20.0	15.1	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	98	195457	20.0	21.2	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	96	118459	20.0	21.0	
128 1,2,4-Trichlorobenzene	180	13.577	13.577	0.000	94	105784	20.0	21.4	
129 Hexachlorobutadiene	225	13.748	13.748	0.000	97	61901	20.0	22.3	
130 Naphthalene	128	13.770	13.770	0.000	99	206904	20.0	19.7	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	95	97391	20.0	21.2	
S 132 1,2-Dichloroethene, Total	100				0		40.0	41.2	
S 133 Xylenes, Total	100				0		40.0	39.6	
S 134 Total BTEX	1				0		100.0	98.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
8260MIX1COMB_00080	Amount Added: 20.00	Units: uL	
GASES Li_00262	Amount Added: 20.00	Units: uL	
8260SURR250_00178	Amount Added: 1.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396463.D

Injection Date: 01-Jun-2018 11:46:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

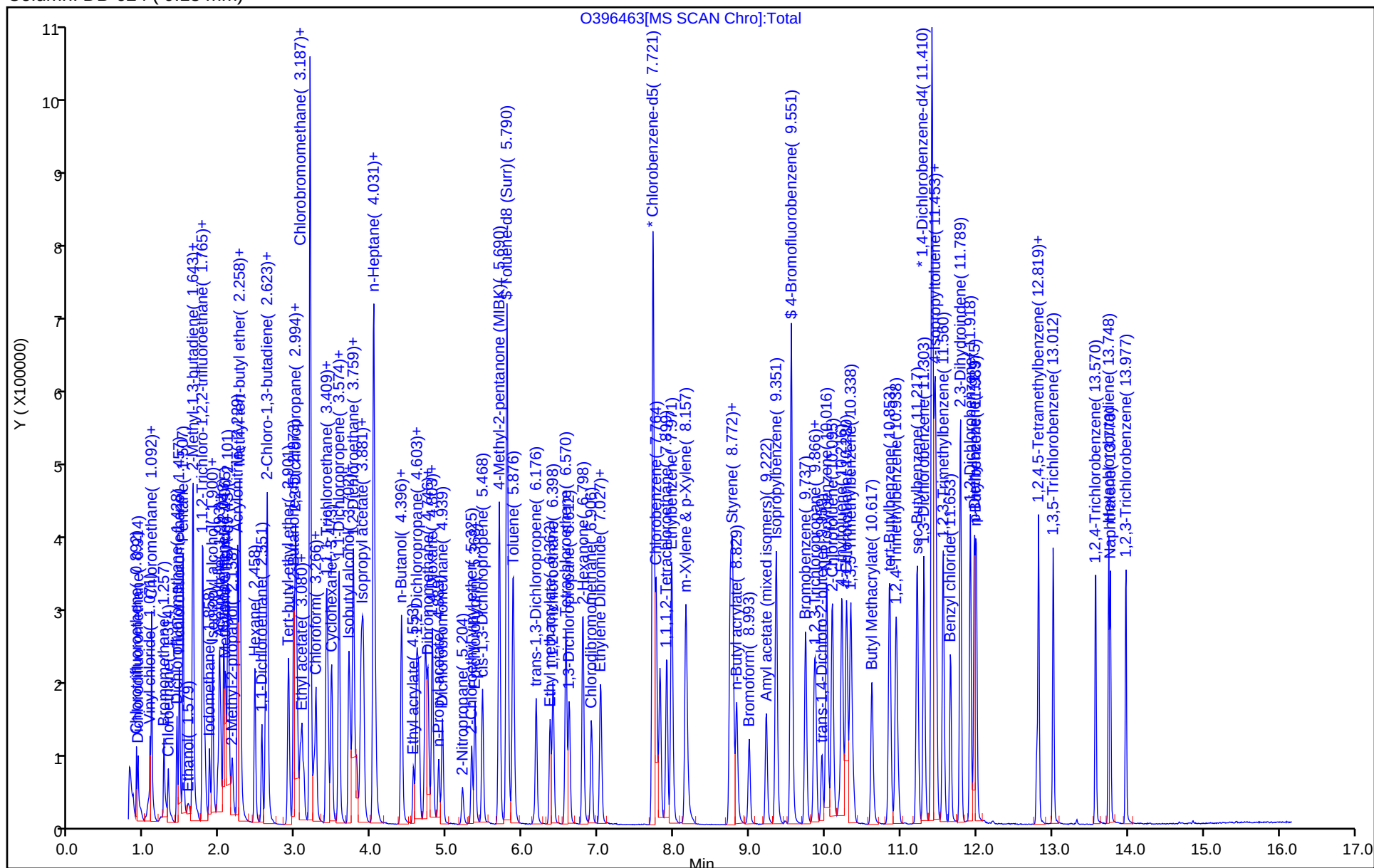
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396463.D

Injection Date: 01-Jun-2018 11:46:30

Instrument ID: CVOAMS12

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

1

Worklist Smp#: 2

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

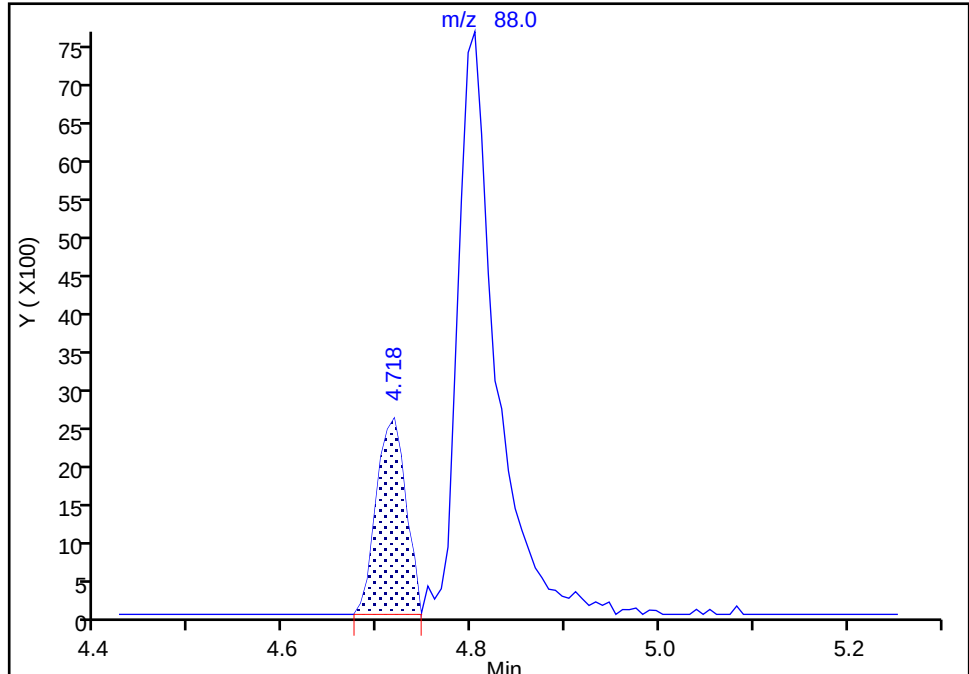
Detector: MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

Signal: 1

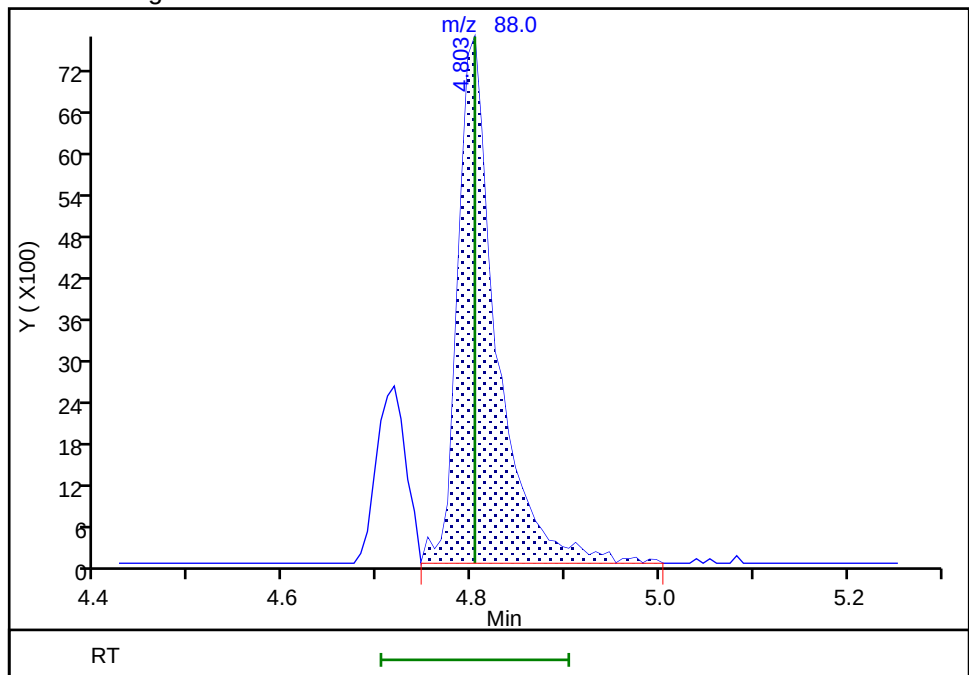
RT: 4.72
Area: 5591
Amount: 102.8552
Amount Units: ug/l

Processing Integration Results



RT: 4.80
Area: 21789
Amount: 400.8428
Amount Units: ug/l

Manual Integration Results



Reviewer: starzecm, 01-Jun-2018 12:06:22

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39391.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 24-May-2018 12:58:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0072608-001
Operator ID: Instrument ID: CVOAMS12
Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\8260W_12.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 25-May-2018 15:05:59 Calib Date: 24-May-2018 16:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: martineze

Date: 24-May-2018 14:37:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 139 BFB	95	2.315	2.315	0.000	93	70574	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00017

Amount Added: 1.00

Units: uL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39391.D

Injection Date: 24-May-2018 12:58:30

Instrument ID: CVOAMS12

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 5.0 mL

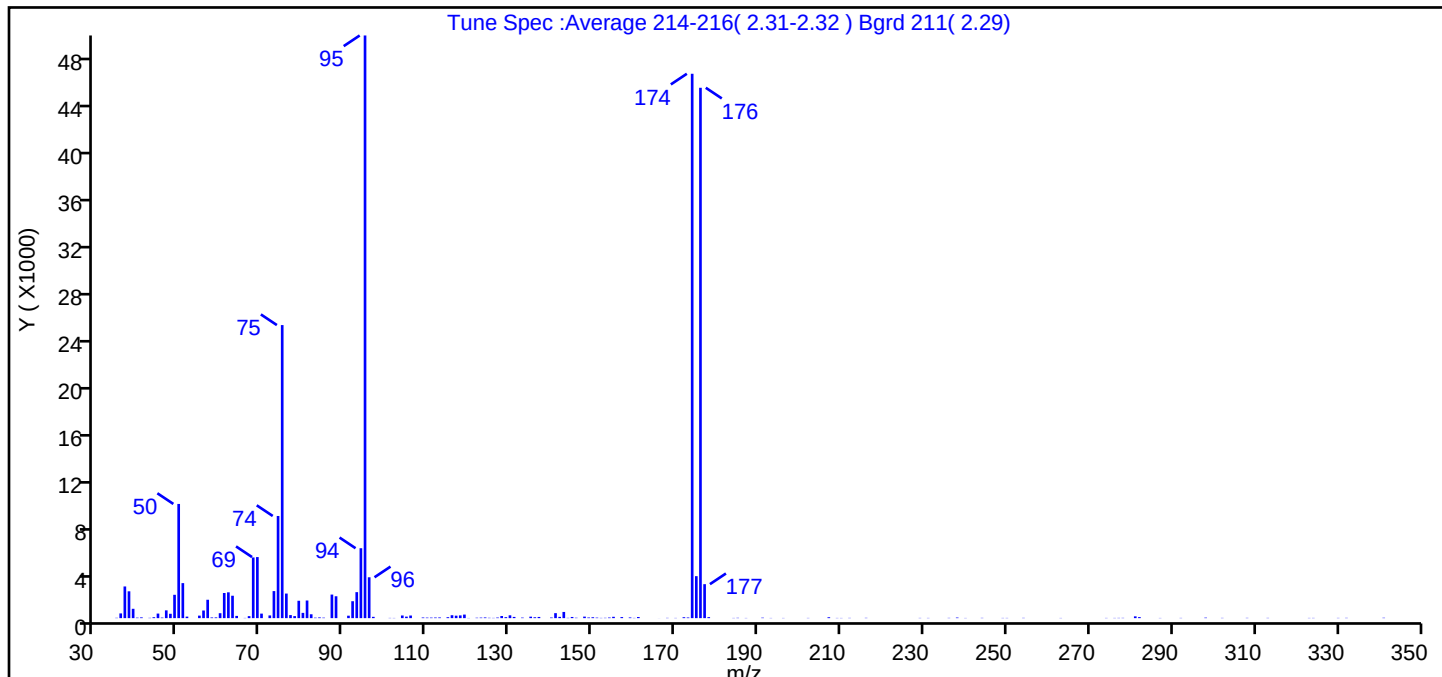
Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.6
75	30 to 60% of m/z 95	50.3
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.1 (0.1)
174	50 to 120% of m/z 95	93.4
175	5 to 9% of m/z 174	7.2 (7.7)
176	Greater than 95% but less than 101% of m/z 174	91.0 (97.4)
177	5 to 9% of m/z 176	5.8 (6.4)

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39391.D\8260W_12.rsl\spectra.d
Injection Date: 24-May-2018 12:58:30
Spectrum: Tune Spec :Average 214-216(2.31-2.32) Bgrd 211(2.29)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 153

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	28	79.00	1488	129.00	84	191.00	40
36.00	405	80.00	452	130.00	243	193.00	17
37.00	2714	81.00	1511	131.00	105	196.00	17
38.00	2299	82.00	331	133.00	47	202.00	19
39.00	801	83.00	42	135.00	126	207.00	76
40.00	42	84.00	63	136.00	76	209.00	18
41.00	65	85.00	41	137.00	102	210.00	17
43.00	25	87.00	2019	140.00	54	212.00	22
44.00	79	88.00	1875	141.00	428	216.00	26
45.00	392	91.00	210	142.00	109	229.00	20
46.00	49	92.00	1450	143.00	531	231.00	19
47.00	667	93.00	2227	144.00	24	236.00	23
48.00	374	94.00	5989	145.00	100	238.00	50
49.00	2000	95.00	49912	146.00	34	240.00	17
50.00	9783	96.00	3501	148.00	130	244.00	24
51.00	3000	97.00	112	149.00	55	249.00	19
52.00	131	101.00	20	150.00	76	250.00	19
55.00	216	102.00	17	151.00	44	254.00	24
56.00	654	104.00	228	152.00	21	263.00	17
57.00	1575	105.00	130	153.00	28	274.00	19
58.00	59	106.00	224	154.00	53	276.00	19
59.00	63	109.00	55	155.00	115	277.00	22
60.00	423	110.00	45	157.00	90	278.00	24
61.00	2154	111.00	46	159.00	59	281.00	152
62.00	2212	112.00	53	160.00	20	282.00	88
63.00	1919	113.00	60	161.00	95	287.00	17
64.00	192	115.00	81	166.00	4	292.00	20
66.00	19	116.00	251	168.00	23	298.00	42
67.00	171	117.00	212	170.00	19	302.00	22
68.00	5198	118.00	236	172.00	77	308.00	24
69.00	5231	119.00	305	173.00	56	313.00	22
70.00	388	120.00	15	174.00	46632	323.00	19
72.00	232	122.00	35	175.00	3597	324.00	20

Report Date: 25-May-2018 15:06:00

Chrom Revision: 2.2 11-May-2018 08:54:46

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39391.D\8260W_12.rslt\spectra.d

Injection Date: 24-May-2018 12:58:30

Spectrum: Tune Spec :Average 214-216(2.31-2.32) Bgrd 211(2.29)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 153

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	2317	123.00	46	176.00	45432	330.00	21
74.00	8751	124.00	59	177.00	2911	332.00	25
75.00	25104	125.00	29	178.00	85	341.00	33
76.00	2106	126.00	21	184.00	18		
77.00	262	127.00	51	185.00	28		
78.00	175	128.00	182	187.00	17		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396437.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 31-May-2018 23:31:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0072999-001
Operator ID: Instrument ID: CVOAMS12
Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\8260W_12.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 31-May-2018 23:42:59 Calib Date: 24-May-2018 16:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: parekhv

Date: 31-May-2018 23:42:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 139 BFB	95	2.308	2.308	0.000	93	48066	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00017

Amount Added: 1.00

Units: uL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396437.D

Injection Date: 31-May-2018 23:31:30

Instrument ID: CVOAMS12

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 5.0 mL

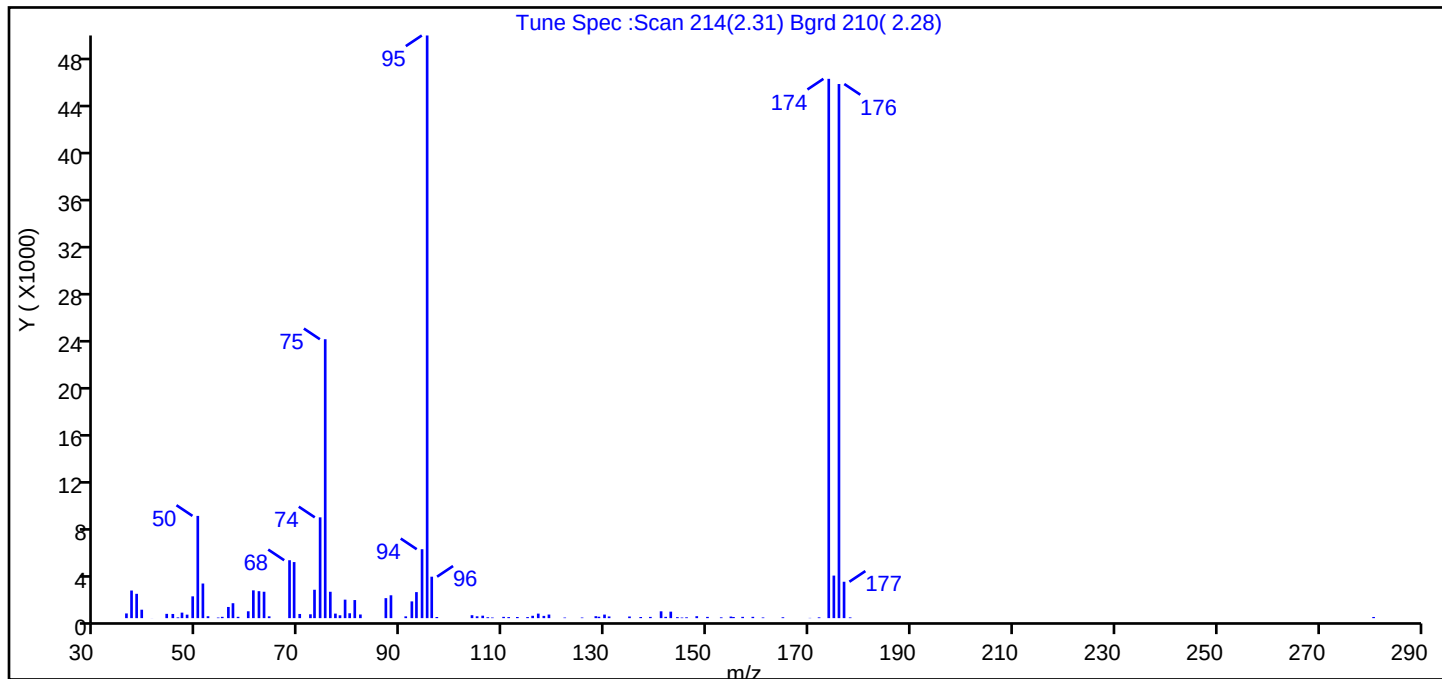
Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.5
75	30 to 60% of m/z 95	47.9
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	92.6
175	5 to 9% of m/z 174	7.3 (7.9)
176	Greater than 95% but less than 101% of m/z 174	91.7 (99.0)
177	5 to 9% of m/z 176	6.2 (6.8)

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396437.D\8260W_12.rsl\spectra.d
Injection Date: 31-May-2018 23:31:30
Spectrum: Tune Spec :Scan 214(2.31) Bgrd 210(2.28)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	399	64.00	154	96.90	97	140.90	579
37.00	2340	68.00	4905	103.80	250	141.80	109
38.00	2060	68.90	4749	104.80	155	142.80	550
39.00	715	70.00	354	105.90	209	144.10	85
41.00	5	72.10	326	106.90	77	145.00	51
43.90	364	72.90	2405	107.80	53	145.90	71
45.10	354	74.00	8538	110.00	109	147.90	165
46.10	65	75.00	23624	111.00	90	150.00	106
46.90	467	76.00	2234	112.70	97	152.70	67
47.90	297	77.00	384	114.70	90	154.60	132
49.00	1846	77.90	242	115.70	200	155.10	96
50.00	8660	78.90	1566	116.80	384	156.90	109
51.00	2933	79.80	413	117.90	191	158.90	111
52.00	161	80.80	1532	118.90	305	160.90	58
54.00	50	81.90	310	122.00	50	164.80	74
54.80	111	86.90	1694	125.40	52	170.10	20
56.00	947	87.90	1936	128.10	165	171.90	67
56.90	1264	90.80	150	128.70	119	173.80	45680
57.90	113	92.00	1419	129.80	301	174.80	3605
59.90	582	92.90	2205	130.70	143	175.80	45240
60.90	2354	94.00	5838	134.70	139	176.80	3083
62.00	2284	95.00	49352	136.90	97	178.00	61
63.00	2236	95.90	3511	138.80	105	280.70	98

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396462.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Jun-2018 11:17:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0073036-001
Operator ID: Instrument ID: CVOAMS12
Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\8260W_12.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jun-2018 19:10:31 Calib Date: 24-May-2018 16:43:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: martineze

Date: 01-Jun-2018 19:10:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 139 BFB	95	2.308	2.308	0.000	93	37834	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00017

Amount Added: 1.00

Units: uL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396462.D

Injection Date: 01-Jun-2018 11:17:30

Instrument ID: CVOAMS12

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 5.0 mL

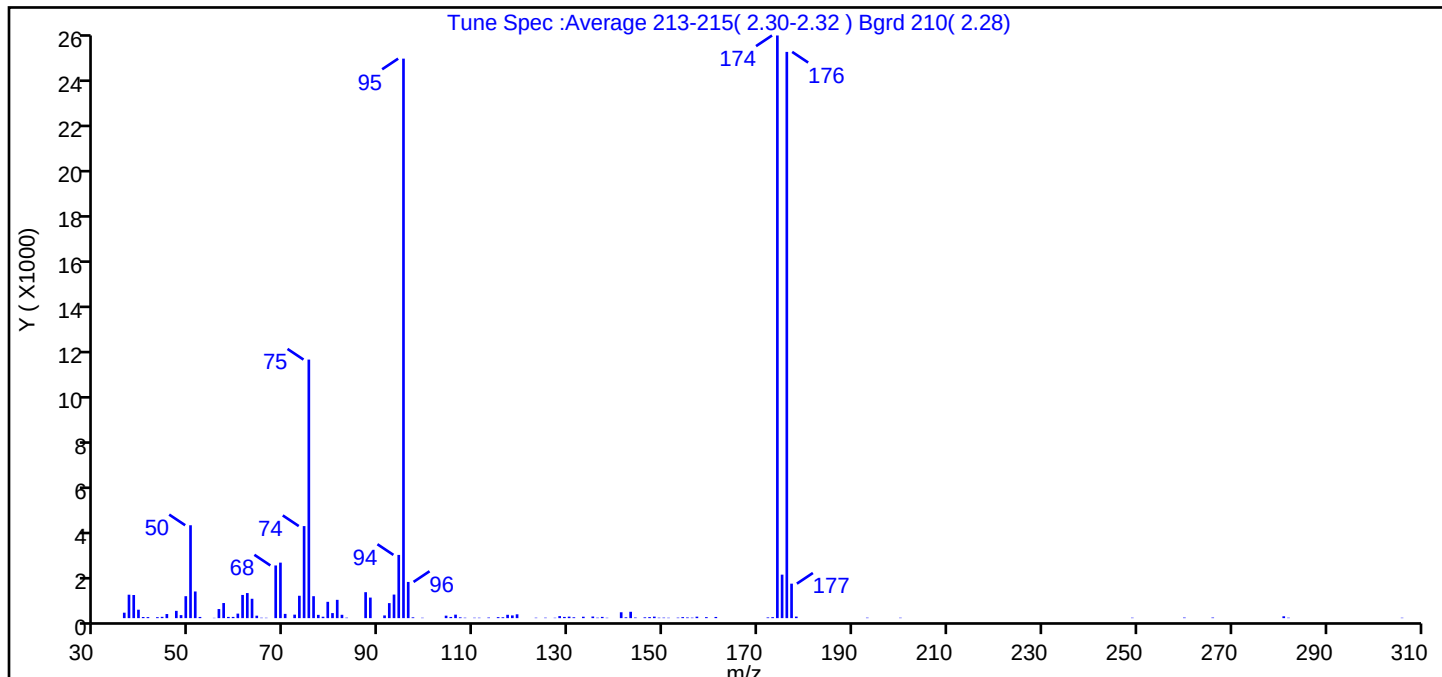
Dil. Factor: 1.0000

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.6
75	30 to 60% of m/z 95	46.2
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	104.1
175	5 to 9% of m/z 174	7.8 (7.5)
176	Greater than 95% but less than 101% of m/z 174	101.2 (97.2)
177	5 to 9% of m/z 176	6.2 (6.1)

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396462.D\8260W_12.rsl\spectra.d
Injection Date: 01-Jun-2018 11:17:30
Spectrum: Tune Spec :Average 213-215(2.30-2.32) Bgrd 210(2.28)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	239	69.00	2435	108.00	19	149.00	20
37.00	1028	70.00	187	110.00	18	150.00	22
38.00	1015	72.00	153	111.00	18	151.00	17
39.00	370	73.00	982	113.00	26	153.00	22
40.00	49	74.00	4038	115.00	44	154.00	45
41.00	46	75.00	11342	116.00	38	155.00	30
43.00	42	76.00	963	117.00	147	156.00	21
44.00	57	77.00	144	118.00	120	157.00	64
45.00	180	78.00	62	119.00	168	159.00	44
47.00	320	79.00	716	123.00	19	161.00	52
48.00	133	80.00	222	125.00	20	172.00	31
49.00	963	81.00	803	127.00	17	173.00	43
50.00	4075	82.00	147	128.00	89	174.00	25560
51.00	1170	83.00	21	129.00	54	175.00	1908
52.00	52	87.00	1139	130.00	66	176.00	24840
55.00	13	88.00	902	131.00	38	177.00	1513
56.00	399	91.00	119	133.00	62	178.00	68
57.00	663	92.00	659	135.00	71	193.00	20
58.00	54	93.00	1034	136.00	20	200.00	18
59.00	54	94.00	2774	137.00	55	249.00	19
60.00	199	95.00	24544	138.00	16	260.00	25
61.00	1018	96.00	1589	141.00	258	266.00	26
62.00	1100	97.00	36	142.00	37	281.00	81
63.00	850	99.00	17	143.00	279	282.00	19
64.00	108	104.00	109	144.00	27	306.00	17
65.00	18	105.00	52	146.00	35		
66.00	16	106.00	153	147.00	45		
68.00	2311	107.00	34	148.00	66		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 460-524141/7

Matrix: Water Lab File ID: O396443.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 02:13

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 524141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.22	U	1.0	0.22
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
75-00-3	Chloroethane	0.37	U	1.0	0.37
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
67-64-1	Acetone	1.1	U	5.0	1.1
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
67-66-3	Chloroform	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-93-3	2-Butanone	2.2	U	5.0	2.2
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
79-01-6	Trichloroethene	0.22	U	1.0	0.22
124-48-1	Dibromochloromethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
71-43-2	Benzene	0.090	U	1.0	0.090
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
75-25-2	Bromoform	0.18	U	1.0	0.18
108-10-1	4-Methyl-2-pentanone	0.63	U	5.0	0.63
591-78-6	2-Hexanone	0.72	U	5.0	0.72
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
108-88-3	Toluene	0.25	U	1.0	0.25
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
100-42-5	Styrene	0.17	U	1.0	0.17
1330-20-7	Xylenes, Total	0.28	U	2.0	0.28
76-13-1	Freon TF	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 460-524141/7
 Matrix: Water Lab File ID: O396443.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 02:13
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 524141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.13	U	1.0	0.13
110-82-7	Cyclohexane	0.26	U	1.0	0.26
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
2037-26-5	Toluene-d8 (Surr)	94		80-120
460-00-4	Bromofluorobenzene	110		77-124
1868-53-7	Dibromofluoromethane (Surr)	101		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396443.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Jun-2018 02:13:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 460-0072999-007
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 16:52:31 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: baronm

Date: 01-Jun-2018 16:52:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	2.101	2.122	-0.021	0	372570	1000.0	1000.0	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	297704	250.0	250.0	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	97	137259	50.0	50.5	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	135669	50.0	46.0	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	551032	50.0	50.0	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	46468	1000.0	1000.0	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	553857	50.0	47.0	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	84	542787	50.0	50.0	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	276365	50.0	55.0	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	94	346272	50.0	50.0	
130 Naphthalene	128	13.784	13.770	0.014	98	2521		0.2681	

Reagents:

8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180531-72999.b\\O396443.D

Injection Date: 01-Jun-2018 02:13:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

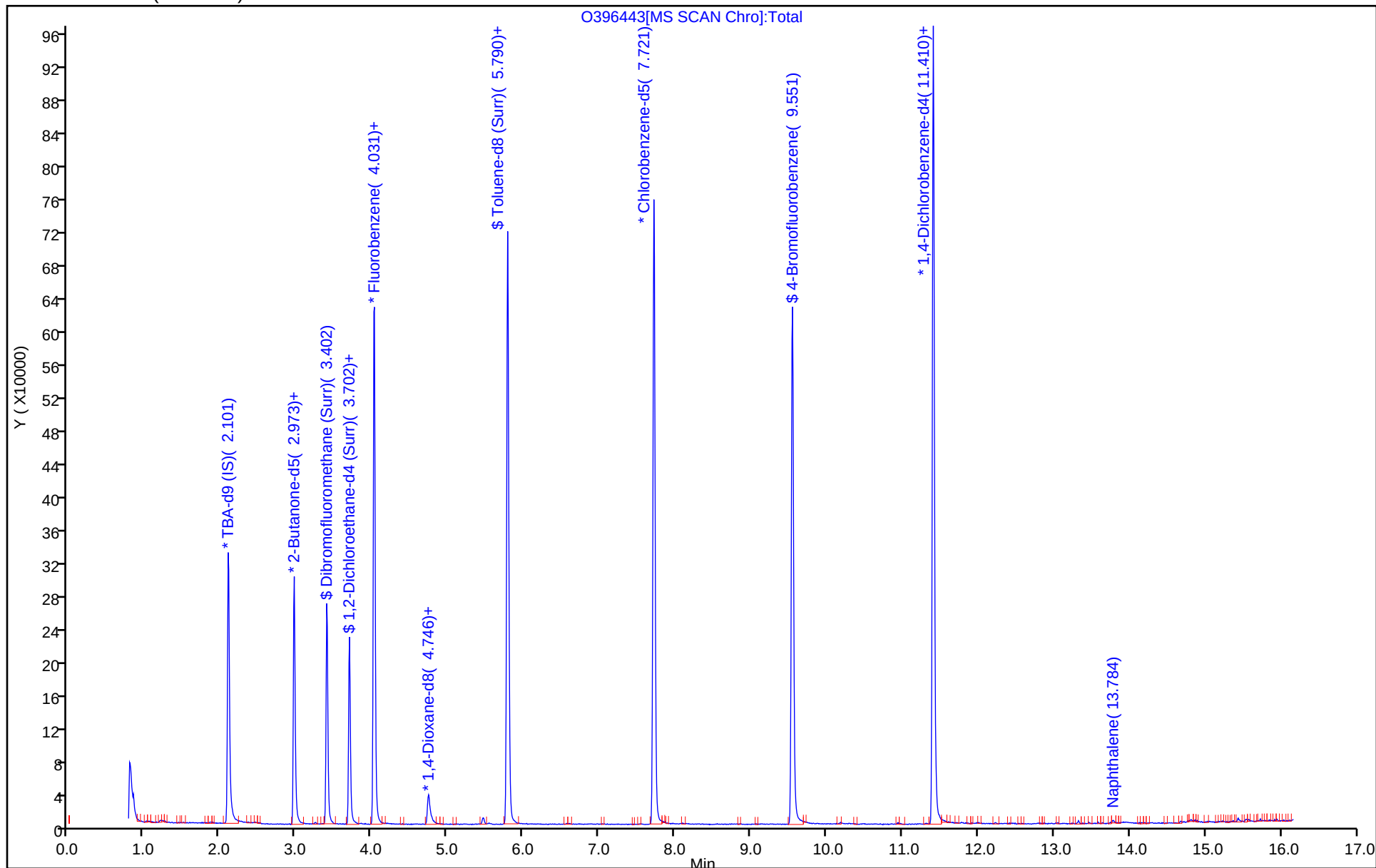
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396443.D

Injection Date: 01-Jun-2018 02:13:30

Instrument ID: CVOAMS12

Lims ID: MB

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

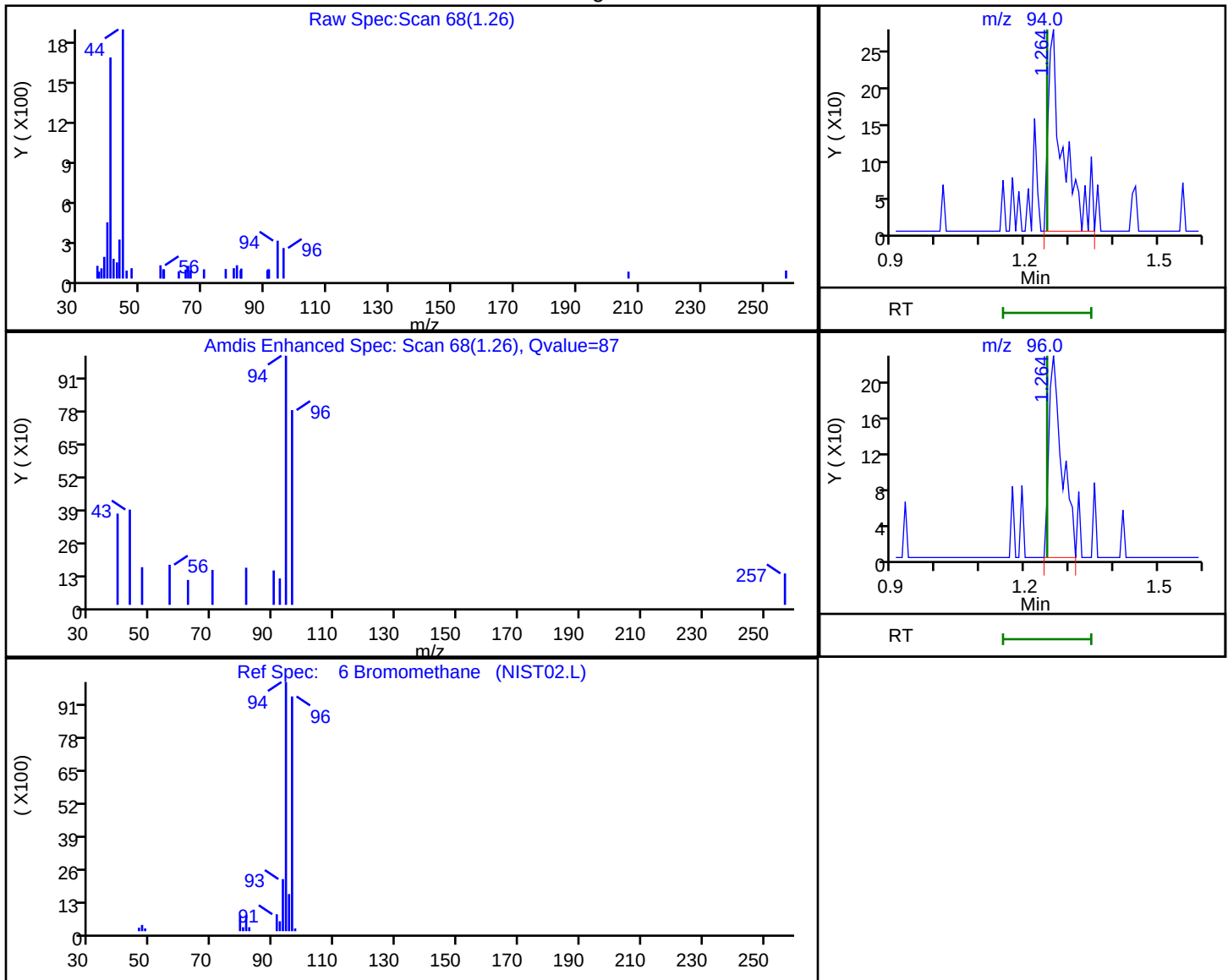
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector: MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.26	94.00	647	0.408112
1.26	96.00	456	

Reviewer: parekhv, 01-Jun-2018 02:31:19

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 460-524327/12

Matrix: Water Lab File ID: O396473.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 18:20

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.22	U	1.0	0.22
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
75-00-3	Chloroethane	0.37	U	1.0	0.37
75-09-2	Methylene Chloride	0.21	U	1.0	0.21
67-64-1	Acetone	1.1	U	5.0	1.1
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
67-66-3	Chloroform	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-93-3	2-Butanone	2.2	U	5.0	2.2
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
79-01-6	Trichloroethene	0.22	U	1.0	0.22
124-48-1	Dibromochloromethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
71-43-2	Benzene	0.090	U	1.0	0.090
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
75-25-2	Bromoform	0.18	U	1.0	0.18
108-10-1	4-Methyl-2-pentanone	0.63	U	5.0	0.63
591-78-6	2-Hexanone	0.72	U	5.0	0.72
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
108-88-3	Toluene	0.25	U	1.0	0.25
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
100-42-5	Styrene	0.17	U	1.0	0.17
1330-20-7	Xylenes, Total	0.28	U	2.0	0.28
76-13-1	Freon TF	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 460-524327/12
 Matrix: Water Lab File ID: O396473.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 18:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.13	U	1.0	0.13
110-82-7	Cyclohexane	0.26	U	1.0	0.26
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		74-132
2037-26-5	Toluene-d8 (Surr)	89		80-120
460-00-4	Bromofluorobenzene	108		77-124
1868-53-7	Dibromofluoromethane (Surr)	97		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396473.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Jun-2018 18:20:30 ALS Bottle#: 11 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 460-0073036-012
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 19:11:28 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: martineze

Date: 01-Jun-2018 19:13:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	2.108	2.101	0.007	0	386628	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.165	2.158	0.007	97	2181		4.67	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	290614	250.0	250.0	
\$ 49 Dibromofluoromethane (Surr	113	3.409	3.402	0.007	98	136440	50.0	48.3	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	130978	50.0	42.7	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	573162	50.0	50.0	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	45413	1000.0	1000.0	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	531730	50.0	44.5	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	84	551194	50.0	50.0	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	95	274973	50.0	53.9	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	351632	50.0	50.0	

Reagents:

8260SURR250_00178

Amount Added: 1.00

Units: uL

8260ISNEW_00122

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396473.D

Injection Date: 01-Jun-2018 18:20:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: MB

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

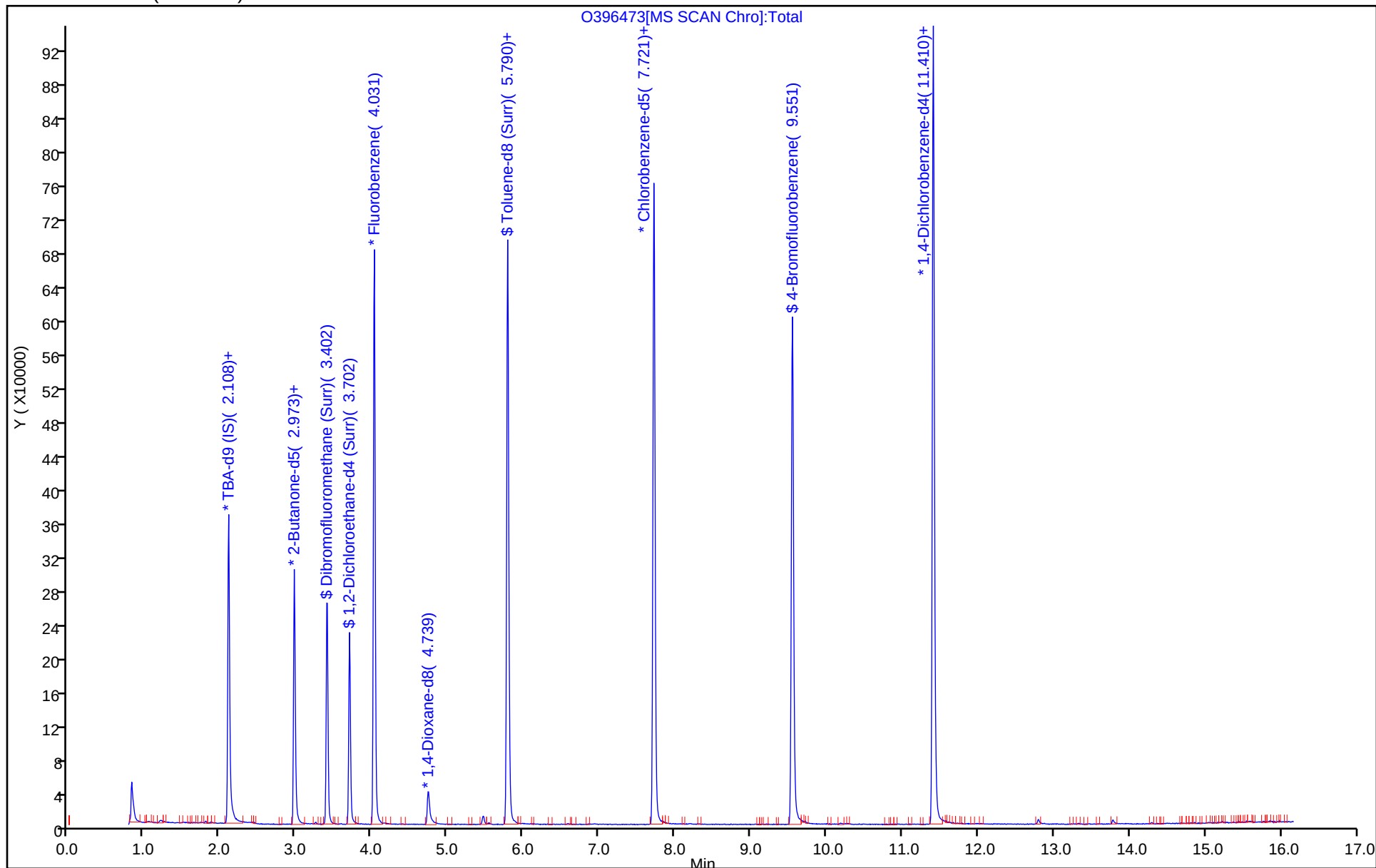
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396473.D

Injection Date: 01-Jun-2018 18:20:30

Instrument ID: CVOAMS12

Lims ID: MB

Client ID:

Operator ID:

ALS Bottle#:

11

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: 8260W_12

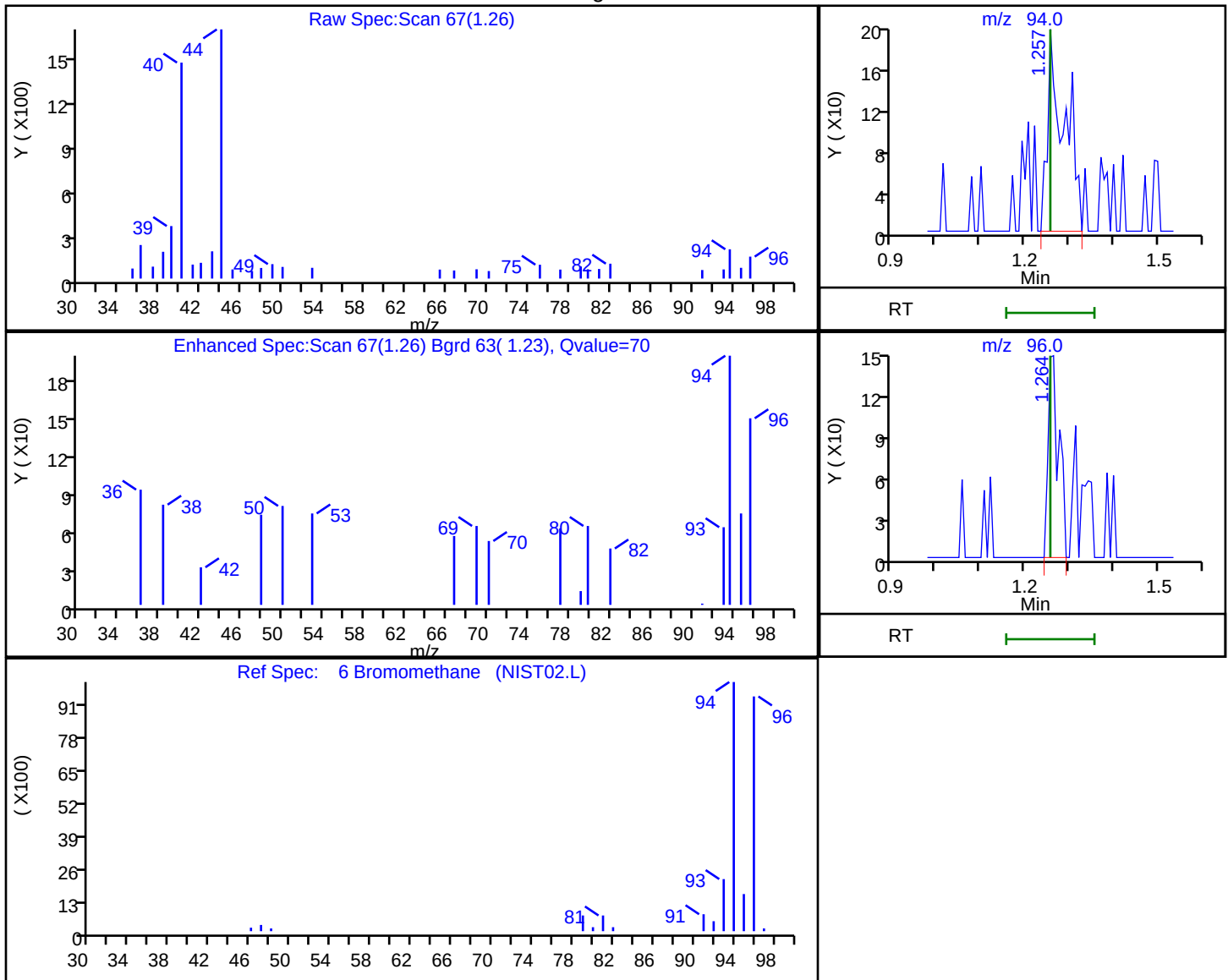
Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)

Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.26	94.00	534	0.345049
1.26	96.00	252	

Reviewer: martineze, 01-Jun-2018 18:39:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 460-524141/4

Matrix: Water Lab File ID: O396440.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 00:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 524141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	16.9		1.0	0.22
74-83-9	Bromomethane	25.0		1.0	0.18
75-01-4	Vinyl chloride	18.1		1.0	0.060
75-00-3	Chloroethane	26.7		1.0	0.37
75-09-2	Methylene Chloride	18.6		1.0	0.21
67-64-1	Acetone	84.7		5.0	1.1
75-15-0	Carbon disulfide	17.9		1.0	0.22
75-69-4	Trichlorofluoromethane	20.2		1.0	0.15
75-35-4	1,1-Dichloroethene	18.5		1.0	0.34
75-34-3	1,1-Dichloroethane	19.0		1.0	0.24
156-60-5	trans-1,2-Dichloroethene	19.9		1.0	0.18
156-59-2	cis-1,2-Dichloroethene	18.9		1.0	0.26
67-66-3	Chloroform	19.6		1.0	0.22
107-06-2	1,2-Dichloroethane	18.0		1.0	0.25
78-93-3	2-Butanone	97.4		5.0	2.2
71-55-6	1,1,1-Trichloroethane	19.5		1.0	0.28
56-23-5	Carbon tetrachloride	19.2		1.0	0.33
75-27-4	Bromodichloromethane	19.2		1.0	0.15
78-87-5	1,2-Dichloropropane	19.1		1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	18.2		1.0	0.16
79-01-6	Trichloroethene	18.7		1.0	0.22
124-48-1	Dibromochloromethane	18.1		1.0	0.22
79-00-5	1,1,2-Trichloroethane	18.6		1.0	0.080
71-43-2	Benzene	18.5		1.0	0.090
10061-02-6	trans-1,3-Dichloropropene	17.4		1.0	0.19
75-25-2	Bromoform	18.2		1.0	0.18
108-10-1	4-Methyl-2-pentanone	96.2		5.0	0.63
591-78-6	2-Hexanone	93.2		5.0	0.72
127-18-4	Tetrachloroethene	20.9		1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	18.3		1.0	0.19
108-88-3	Toluene	18.5		1.0	0.25
108-90-7	Chlorobenzene	18.3		1.0	0.24
100-41-4	Ethylbenzene	18.9		1.0	0.30
100-42-5	Styrene	18.5		1.0	0.17
1330-20-7	Xylenes, Total	37.8		2.0	0.28
76-13-1	Freon TF	20.2		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 460-524141/4
 Matrix: Water Lab File ID: O396440.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 00:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 524141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	19.0		1.0	0.13
110-82-7	Cyclohexane	19.0		1.0	0.26
106-93-4	1,2-Dibromoethane	18.3		1.0	0.19
541-73-1	1,3-Dichlorobenzene	18.1		1.0	0.33
106-46-7	1,4-Dichlorobenzene	18.0		1.0	0.33
95-50-1	1,2-Dichlorobenzene	18.2		1.0	0.22
75-71-8	Dichlorodifluoromethane	15.3		1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	21.0		1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	15.9		1.0	0.23
98-82-8	Isopropylbenzene	18.7		1.0	0.32
108-87-2	Methylcyclohexane	18.1		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		74-132
2037-26-5	Toluene-d8 (Surr)	89		80-120
460-00-4	Bromofluorobenzene	108		77-124
1868-53-7	Dibromofluoromethane (Surr)	93		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\O396440.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Jun-2018 00:49:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 460-0072999-004
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180531-72999.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 11:36:57 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: parekhv

Date: 01-Jun-2018 01:24:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	86	31052	20.0	15.5	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	98	68397	20.0	15.3	
4 Vinyl chloride	62	1.071	1.071	0.000	98	69396	20.0	18.1	
3 Chloromethane	50	1.093	1.092	0.001	98	84047	20.0	16.9	
5 Butadiene	54	1.093	1.092	0.001	96	57995	20.0	17.0	
6 Bromomethane	94	1.250	1.250	0.000	97	44442	20.0	25.0	
7 Chloroethane	64	1.307	1.307	0.000	99	59544	20.0	26.7	
8 Dichlorofluoromethane	67	1.429	1.428	0.001	98	137245	20.0	20.1	
9 Trichlorofluoromethane	101	1.457	1.457	0.000	98	120176	20.0	20.2	
10 Pentane	72	1.507	1.500	0.007	95	21052	40.0	37.6	
11 Ethanol	46	1.586	1.593	-0.007	98	16544	800.0	741.2	
13 Ethyl ether	59	1.636	1.636	0.000	95	56138	20.0	19.3	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	91	65024	20.0	20.3	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	96	50665	20.0	18.2	
15 Acrolein	56	1.707	1.707	0.000	92	8898	40.0	24.9	
16 1,1-Dichloroethene	96	1.765	1.764	0.001	96	63253	20.0	18.5	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	94	68222	20.0	20.2	
18 Acetone	58	1.800	1.807	-0.007	88	31658	100.0	84.7	
19 Iodomethane	127	1.858	1.857	0.001	98	45409	20.0	15.8	
20 Carbon disulfide	76	1.901	1.900	0.000	99	182681	20.0	17.9	
21 Isopropyl alcohol	45	1.901	1.907	-0.007	96	47805	200.0	178.2	
22 Acetonitrile	38	1.986	1.986	0.000	80	24159	200.0	172.2	
23 3-Chloro-1-propene	39	1.986	1.986	0.000	92	79784	20.0	17.4	
24 Methyl acetate	74	2.008	2.015	-0.007	98	27462	40.0	37.8	
25 Cyclopentene	67	2.044	2.043	0.000	95	149509	20.0	20.3	
26 Methylene Chloride	84	2.072	2.072	0.000	86	78359	20.0	18.6	
* 27 TBA-d9 (IS)	65	2.115	2.122	-0.007	0	430392	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.172	2.179	-0.007	99	89097	200.0	172.7	
29 Acrylonitrile	53	2.237	2.236	0.001	95	260621	200.0	188.4	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	90	75808	20.0	19.9	
31 Methyl tert-butyl ether	73	2.265	2.272	-0.007	96	223793	20.0	19.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.458	2.458	0.000	91	76321	20.0	20.7	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	99	101445	20.0	19.0	
34 Vinyl acetate	86	2.601	2.601	0.000	99	29104	40.0	42.9	
35 2-Chloro-1,3-butadiene	88	2.623	2.622	0.001	90	60648	20.0	20.2	
36 Isopropyl ether	45	2.623	2.622	0.001	86	173681	20.0	19.0	
37 Tert-butyl ethyl ether	59	2.902	2.901	0.001	91	178718	20.0	19.3	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	334324	250.0	250.0	
40 cis-1,2-Dichloroethene	96	2.994	2.994	0.000	98	75474	20.0	18.9	
39 2,2-Dichloropropane	97	2.994	3.001	-0.007	84	23477	20.0	19.3	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	98	44101	100.0	97.4	
42 Propionitrile	52	3.059	3.059	0.000	94	19877	200.0	192.6	
43 Ethyl acetate	70	3.080	3.080	0.000	100	14455	40.0	34.9	
44 Methyl acrylate	55	3.109	3.109	0.000	99	62327	20.0	17.6	
45 Methacrylonitrile	67	3.188	3.187	0.001	88	303689	200.0	196.3	
46 Chlorobromomethane	128	3.195	3.194	0.001	50	43719	20.0	20.3	
47 Tetrahydrofuran	42	3.245	3.245	0.000	88	37180	40.0	37.5	
48 Chloroform	83	3.266	3.266	0.000	99	112462	20.0	19.6	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	143230	50.0	46.7	
50 1,1,1-Trichloroethane	97	3.424	3.423	0.001	97	100823	20.0	19.5	
51 Cyclohexane	84	3.474	3.473	0.001	87	85455	20.0	19.0	
53 Carbon tetrachloride	117	3.567	3.566	0.000	97	88373	20.0	19.2	
52 1,1-Dichloropropene	75	3.574	3.573	0.001	96	85889	20.0	19.7	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	139756	50.0	42.0	
55 Isobutyl alcohol	43	3.731	3.731	0.000	97	62368	500.0	398.2	a
56 Benzene	78	3.760	3.759	0.001	95	248700	20.0	18.5	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	87063	20.0	18.0	
58 Isooctane	57	3.860	3.859	0.001	99	128174	20.0	17.1	
59 Isopropyl acetate	61	3.867	3.867	0.000	98	24805	20.0	17.6	
60 Tert-amyl methyl ether	73	3.888	3.888	0.000	91	198390	20.0	18.5	
* 61 Fluorobenzene	96	4.024	4.031	-0.007	99	621707	50.0	50.0	
62 n-Heptane	43	4.046	4.045	0.001	88	52160	20.0	15.8	
64 Trichloroethene	95	4.396	4.396	0.000	94	69758	20.0	18.7	
63 n-Butanol	56	4.396	4.410	-0.014	45	44990	500.0	397.9	
65 Ethyl acrylate	55	4.553	4.553	0.000	97	80893	20.0	17.3	
66 Methylcyclohexane	83	4.596	4.596	0.000	92	96122	20.0	18.1	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	91	62103	20.0	19.1	
69 Dibromomethane	93	4.746	4.746	0.000	89	48936	20.0	19.6	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	54875	1000.0	1000.0	
70 1,4-Dioxane	88	4.804	4.803	0.001	31	23843	400.0	387.7	
71 Methyl methacrylate	100	4.804	4.803	0.001	80	45128	40.0	37.2	
72 n-Propyl acetate	43	4.889	4.889	0.000	97	86559	20.0	18.1	
73 Dichlorobromomethane	83	4.939	4.939	0.000	98	90715	20.0	19.2	
74 2-Nitropropane	41	5.204	5.204	0.000	98	31731	40.0	32.2	
75 2-Chloroethyl vinyl ether	63	5.325	5.325	0.000	93	51108	20.0	18.8	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	153742	400.0	394.9	
77 cis-1,3-Dichloropropene	75	5.468	5.468	0.000	92	105657	20.0	18.2	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	94	312922	100.0	96.2	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	581704	50.0	44.4	
80 Toluene	91	5.869	5.869	0.000	94	301661	20.0	18.5	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	97	97833	20.0	17.4	
82 Ethyl methacrylate	69	6.362	6.362	0.000	87	89752	20.0	17.3	
83 1,1,1,2-Trichloroethane	83	6.398	6.398	0.000	93	55664	20.0	18.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.570	6.569	0.001	96	95921	20.0	20.9	
85 1,3-Dichloropropane	76	6.613	6.612	0.000	91	108017	20.0	18.6	
86 2-Hexanone	43	6.798	6.798	0.000	94	224160	100.0	93.2	
87 Chlorodibromomethane	129	6.906	6.905	0.001	97	82848	20.0	18.1	
88 n-Butyl acetate	43	7.020	7.020	0.000	98	96341	20.0	16.6	
89 Ethylene Dibromide	107	7.034	7.034	0.000	100	75969	20.0	18.3	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	83	603172	50.0	50.0	
91 Chlorobenzene	112	7.764	7.763	0.001	97	214852	20.0	18.3	
92 1,1,1,2-Tetrachloroethane	131	7.907	7.906	0.001	95	77020	20.0	18.2	
93 Ethylbenzene	106	7.971	7.971	0.000	97	114642	20.0	18.9	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	141668	20.0	18.8	
95 o-Xylene	106	8.743	8.743	0.000	95	141680	20.0	19.0	
96 Styrene	104	8.772	8.772	0.000	97	243278	20.0	18.5	
97 n-Butyl acrylate	73	8.829	8.829	0.000	98	52164	20.0	16.7	
98 Bromoform	173	8.994	8.993	0.001	96	65688	20.0	18.2	
99 Amyl acetate (mixed isomer	43	9.222	9.215	0.007	92	109340	20.0	15.6	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	340808	20.0	18.7	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	95	302061	50.0	54.1	
102 Bromobenzene	156	9.737	9.737	0.000	87	115809	20.0	19.1	
103 1,1,2,2-Tetrachloroethane	83	9.852	9.851	0.001	97	102948	20.0	18.3	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	96	33649	20.0	17.7	
105 trans-1,4-Dichloro-2-buten	53	9.952	9.951	0.001	92	24248	20.0	14.4	
106 N-Propylbenzene	91	10.016	10.016	0.000	100	372476	20.0	17.5	
107 2-Chlorotoluene	91	10.095	10.087	0.008	96	244190	20.0	16.8	
108 4-Ethyltoluene	105	10.216	10.216	0.000	99	336511	20.0	17.7	
109 4-Chlorotoluene	91	10.281	10.280	0.001	95	247313	20.0	16.8	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	94	265058	20.0	17.5	
111 Butyl Methacrylate	87	10.617	10.616	0.001	88	92347	20.0	15.9	
112 tert-Butylbenzene	119	10.853	10.852	0.001	96	248562	20.0	17.3	
113 1,2,4-Trimethylbenzene	105	10.938	10.938	0.000	96	259007	20.0	17.6	
114 sec-Butylbenzene	105	11.217	11.210	0.007	98	328984	20.0	17.1	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	98	202112	20.0	18.1	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	399805	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.439	11.439	0.000	96	209945	20.0	18.0	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	98	287035	20.0	17.4	
119 1,2,3-Trimethylbenzene	105	11.553	11.560	-0.007	97	266756	20.0	17.8	
120 Benzyl chloride	126	11.653	11.653	0.000	100	44884	20.0	17.5	
121 2,3-Dihydroindene	117	11.789	11.789	0.000	94	330459	20.0	18.0	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	97	197730	20.0	18.2	
123 p-Diethylbenzene	119	11.968	11.968	0.000	94	147593	20.0	17.7	
124 n-Butylbenzene	92	11.997	11.996	0.001	97	115023	20.0	17.1	
125 1,2-Dibromo-3-Chloropropan	75	12.797	12.797	0.000	90	20523	20.0	15.9	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	98	188547	20.0	19.8	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	97	117891	20.0	20.2	
128 1,2,4-Trichlorobenzene	180	13.577	13.577	0.000	93	107156	20.0	21.0	
129 Hexachlorobutadiene	225	13.748	13.748	0.000	97	58593	20.0	20.4	
130 Naphthalene	128	13.770	13.770	0.000	99	219926	20.0	20.3	
131 1,2,3-Trichlorobenzene	180	13.970	13.977	-0.007	95	97160	20.0	20.5	
S 132 1,2-Dichloroethene, Total	100				0		40.0	38.8	
S 133 Xylenes, Total	100				0		40.0	37.8	
S 134 Total BTEX	1				0		100.0	93.8	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00080	Amount Added: 20.00	Units: uL	
ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
GASES Li_00262	Amount Added: 20.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180531-72999.b\\O396440.D

Injection Date: 01-Jun-2018 00:49:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

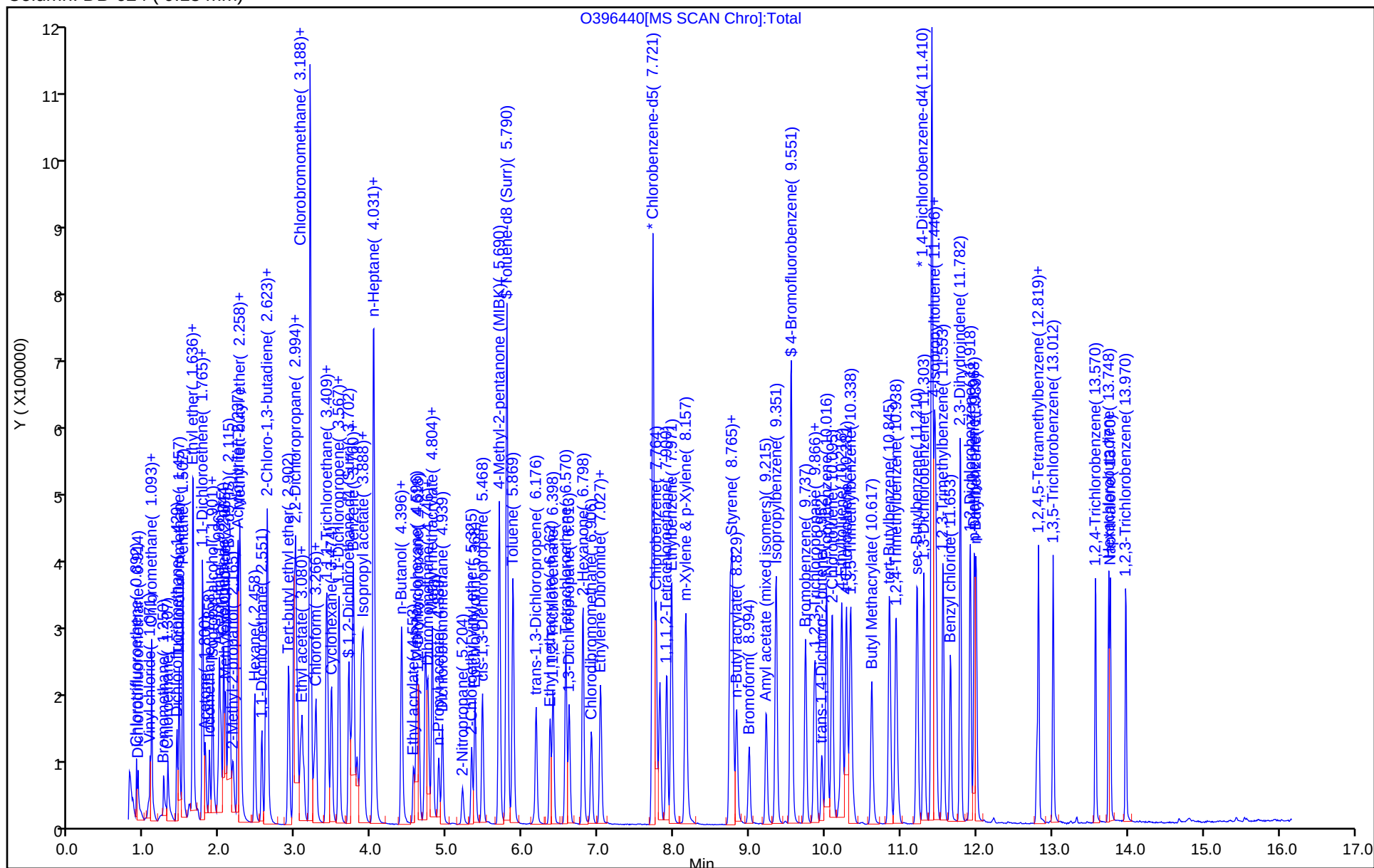
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 460-524327/3

Matrix: Water Lab File ID: O396464.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 12:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	19.3		1.0	0.22
74-83-9	Bromomethane	38.4		1.0	0.18
75-01-4	Vinyl chloride	19.8		1.0	0.060
75-00-3	Chloroethane	23.6		1.0	0.37
75-09-2	Methylene Chloride	19.0		1.0	0.21
67-64-1	Acetone	87.5		5.0	1.1
75-15-0	Carbon disulfide	20.1		1.0	0.22
75-69-4	Trichlorofluoromethane	20.7		1.0	0.15
75-35-4	1,1-Dichloroethene	19.8		1.0	0.34
75-34-3	1,1-Dichloroethane	20.0		1.0	0.24
156-60-5	trans-1,2-Dichloroethene	20.7		1.0	0.18
156-59-2	cis-1,2-Dichloroethene	20.0		1.0	0.26
67-66-3	Chloroform	20.5		1.0	0.22
107-06-2	1,2-Dichloroethane	18.4		1.0	0.25
78-93-3	2-Butanone	97.7		5.0	2.2
71-55-6	1,1,1-Trichloroethane	20.4		1.0	0.28
56-23-5	Carbon tetrachloride	21.0		1.0	0.33
75-27-4	Bromodichloromethane	20.4		1.0	0.15
78-87-5	1,2-Dichloropropane	19.7		1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	18.7		1.0	0.16
79-01-6	Trichloroethene	19.8		1.0	0.22
124-48-1	Dibromochloromethane	19.2		1.0	0.22
79-00-5	1,1,2-Trichloroethane	18.9		1.0	0.080
71-43-2	Benzene	19.1		1.0	0.090
10061-02-6	trans-1,3-Dichloropropene	17.8		1.0	0.19
75-25-2	Bromoform	19.0		1.0	0.18
108-10-1	4-Methyl-2-pentanone	97.7		5.0	0.63
591-78-6	2-Hexanone	95.2		5.0	0.72
127-18-4	Tetrachloroethene	21.8		1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	18.5		1.0	0.19
108-88-3	Toluene	19.4		1.0	0.25
108-90-7	Chlorobenzene	19.1		1.0	0.24
100-41-4	Ethylbenzene	20.0		1.0	0.30
100-42-5	Styrene	19.0		1.0	0.17
1330-20-7	Xylenes, Total	39.5		2.0	0.28
76-13-1	Freon TF	22.0		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 460-524327/3
 Matrix: Water Lab File ID: O396464.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 12:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	19.2		1.0	0.13
110-82-7	Cyclohexane	21.0		1.0	0.26
106-93-4	1,2-Dibromoethane	18.9		1.0	0.19
541-73-1	1,3-Dichlorobenzene	18.8		1.0	0.33
106-46-7	1,4-Dichlorobenzene	18.5		1.0	0.33
95-50-1	1,2-Dichlorobenzene	18.8		1.0	0.22
75-71-8	Dichlorodifluoromethane	19.3		1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	21.5		1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	16.7		1.0	0.23
98-82-8	Isopropylbenzene	19.6		1.0	0.32
108-87-2	Methylcyclohexane	20.5		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		74-132
2037-26-5	Toluene-d8 (Surr)	89		80-120
460-00-4	Bromofluorobenzene	108		77-124
1868-53-7	Dibromofluoromethane (Surr)	94		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396464.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Jun-2018 12:14:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 460-0073036-003
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 19:11:28 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: martineze

Date: 01-Jun-2018 19:11:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	86	31435	20.0	16.6	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	99	81934	20.0	19.3	
4 Vinyl chloride	62	1.071	1.071	0.000	98	72269	20.0	19.8	
3 Chloromethane	50	1.092	1.092	0.000	87	91058	20.0	19.3	
5 Butadiene	54	1.092	1.092	0.000	96	62638	20.0	19.4	
6 Bromomethane	94	1.257	1.257	0.000	98	64180	20.0	38.4	
7 Chloroethane	64	1.314	1.314	0.000	99	50027	20.0	23.6	
8 Dichlorofluoromethane	67	1.428	1.428	0.000	99	126498	20.0	19.5	
9 Trichlorofluoromethane	101	1.464	1.464	0.000	99	116968	20.0	20.7	
10 Pentane	72	1.507	1.507	0.000	95	21338	40.0	40.1	
11 Ethanol	46	1.571	1.571	0.000	96	14733	800.0	723.3	
13 Ethyl ether	59	1.636	1.636	0.000	95	53219	20.0	19.3	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	93	64033	20.0	21.1	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	96	52249	20.0	19.8	
15 Acrolein	56	1.700	1.700	0.000	91	5532	40.0	17.0	
16 1,1-Dichloroethene	96	1.765	1.765	0.000	96	64332	20.0	19.8	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	93	70577	20.0	22.0	
18 Acetone	58	1.800	1.800	0.000	88	30878	100.0	87.5	
19 Iodomethane	127	1.857	1.857	0.000	98	40762	20.0	14.9	
21 Isopropyl alcohol	45	1.893	1.893	0.000	98	44383	200.0	181.3	
20 Carbon disulfide	76	1.900	1.900	0.000	100	195335	20.0	20.1	
22 Acetonitrile	38	1.993	1.993	0.000	95	23602	200.0	184.4	a
23 3-Chloro-1-propene	39	1.993	1.993	0.000	92	80585	20.0	18.5	
24 Methyl acetate	74	2.008	2.008	0.000	98	26142	40.0	39.4	
25 Cyclopentene	67	2.051	2.051	0.000	95	152487	20.0	21.8	
26 Methylene Chloride	84	2.072	2.072	0.000	84	76186	20.0	19.0	
* 27 TBA-d9 (IS)	65	2.108	2.108	0.000	0	392685	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.158	2.158	0.000	98	82558	200.0	175.4	
29 Acrylonitrile	53	2.229	2.229	0.000	94	250957	200.0	190.9	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	90	75246	20.0	20.7	
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	96	214820	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.458	2.458	0.000	91	82315	20.0	23.5	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	99	101365	20.0	20.0	
34 Vinyl acetate	86	2.601	2.601	0.000	99	27545	40.0	43.0	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	77	60790	20.0	21.3	
36 Isopropyl ether	45	2.623	2.623	0.000	85	166073	20.0	19.2	
37 Tert-butyl ethyl ether	59	2.901	2.901	0.000	91	171434	20.0	19.5	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	315678	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.002	3.002	0.000	98	75607	20.0	20.0	
39 2,2-Dichloropropane	97	3.002	3.002	0.000	77	22780	20.0	19.8	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	98	41759	100.0	97.7	
42 Propionitrile	52	3.059	3.059	0.000	94	17069	200.0	181.3	
43 Ethyl acetate	70	3.080	3.080	0.000	99	14292	40.0	36.6	
44 Methyl acrylate	55	3.109	3.109	0.000	99	60811	20.0	18.0	
45 Methacrylonitrile	67	3.187	3.187	0.000	88	295149	200.0	200.8	
46 Chlorobromomethane	128	3.195	3.195	0.000	50	40648	20.0	19.9	
47 Tetrahydrofuran	42	3.245	3.245	0.000	80	35358	40.0	37.7	
48 Chloroform	83	3.266	3.266	0.000	99	111907	20.0	20.5	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	136936	50.0	47.0	
50 1,1,1-Trichloroethane	97	3.423	3.423	0.000	97	100011	20.0	20.4	
51 Cyclohexane	84	3.473	3.473	0.000	87	89677	20.0	21.0	
53 Carbon tetrachloride	117	3.574	3.574	0.000	96	91946	20.0	21.0	
52 1,1-Dichloropropene	75	3.574	3.574	0.000	96	84753	20.0	20.5	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	132916	50.0	42.0	
55 Isobutyl alcohol	43	3.724	3.724	0.000	98	58248	500.0	407.6	
56 Benzene	78	3.759	3.759	0.000	95	247791	20.0	19.1	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	84658	20.0	18.4	
58 Isooctane	57	3.860	3.860	0.000	98	139212	20.0	19.6	
59 Isopropyl acetate	61	3.867	3.867	0.000	97	23538	20.0	17.6	
60 Tert-amyl methyl ether	73	3.888	3.888	0.000	97	190201	20.0	18.7	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	590620	50.0	50.0	
62 n-Heptane	43	4.053	4.053	0.000	87	56689	20.0	18.1	
63 n-Butanol	56	4.389	4.389	0.000	85	43363	500.0	420.3	
64 Trichloroethene	95	4.396	4.396	0.000	94	70193	20.0	19.8	
65 Ethyl acrylate	55	4.553	4.553	0.000	98	77719	20.0	17.5	
66 Methylcyclohexane	83	4.596	4.596	0.000	94	103207	20.0	20.5	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	91	60903	20.0	19.7	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	51054	1000.0	1000.0	
69 Dibromomethane	93	4.746	4.746	0.000	90	47256	20.0	19.9	
70 1,4-Dioxane	88	4.803	4.803	0.000	33	22264	400.0	389.1	
71 Methyl methacrylate	100	4.803	4.803	0.000	81	44151	40.0	38.3	
72 n-Propyl acetate	43	4.889	4.889	0.000	97	83734	20.0	18.4	
73 Dichlorobromomethane	83	4.939	4.939	0.000	98	91654	20.0	20.4	
74 2-Nitropropane	41	5.204	5.204	0.000	100	32247	40.0	34.5	
75 2-Chloroethyl vinyl ether	63	5.325	5.325	0.000	94	47342	20.0	18.3	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	148871	400.0	405.0	
77 cis-1,3-Dichloropropene	75	5.468	5.468	0.000	91	104579	20.0	18.7	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	94	299989	100.0	97.7	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	560789	50.0	44.4	
80 Toluene	91	5.876	5.876	0.000	93	304505	20.0	19.4	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	97	96309	20.0	17.8	
82 Ethyl methacrylate	69	6.362	6.362	0.000	87	87881	20.0	17.6	
83 1,1,1,2-Trichloroethane	83	6.398	6.398	0.000	93	54442	20.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.569	6.569	0.000	96	96478	20.0	21.8	
85 1,3-Dichloropropane	76	6.612	6.612	0.000	91	107715	20.0	19.2	
86 2-Hexanone	43	6.798	6.798	0.000	93	216150	100.0	95.2	
87 Chlorodibromomethane	129	6.906	6.906	0.000	97	84904	20.0	19.2	
88 n-Butyl acetate	43	7.027	7.027	0.000	98	91330	20.0	16.4	
89 Ethylene Dibromide	107	7.034	7.034	0.000	100	75633	20.0	18.9	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	83	581583	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	98	217074	20.0	19.1	
92 1,1,1,2-Tetrachloroethane	131	7.907	7.907	0.000	96	77284	20.0	18.9	
93 Ethylbenzene	106	7.971	7.971	0.000	97	116881	20.0	20.0	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	143126	20.0	19.7	
95 o-Xylene	106	8.743	8.743	0.000	95	141907	20.0	19.7	
96 Styrene	104	8.772	8.772	0.000	97	240259	20.0	19.0	
97 n-Butyl acrylate	73	8.829	8.829	0.000	98	51090	20.0	16.9	
98 Bromoform	173	8.993	8.993	0.000	96	66081	20.0	19.0	
99 Amyl acetate (mixed isomer	43	9.222	9.222	0.000	92	106595	20.0	16.1	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	344112	20.0	19.6	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	289997	50.0	53.9	
102 Bromobenzene	156	9.737	9.737	0.000	86	115537	20.0	20.1	
103 1,1,2,2-Tetrachloroethane	83	9.851	9.851	0.000	97	98674	20.0	18.5	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	95	32069	20.0	17.8	
105 trans-1,4-Dichloro-2-buten	53	9.952	9.952	0.000	93	24061	20.0	15.1	
106 N-Propylbenzene	91	10.016	10.016	0.000	100	372975	20.0	18.5	
107 2-Chlorotoluene	91	10.095	10.095	0.000	96	251298	20.0	18.2	
108 4-Ethyltoluene	105	10.216	10.216	0.000	98	334026	20.0	18.5	
109 4-Chlorotoluene	91	10.280	10.280	0.000	94	275555	20.0	19.8	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	94	258370	20.0	18.0	
111 Butyl Methacrylate	87	10.617	10.617	0.000	88	90915	20.0	16.5	
112 tert-Butylbenzene	119	10.852	10.852	0.000	96	250297	20.0	18.3	
113 1,2,4-Trimethylbenzene	105	10.938	10.938	0.000	96	248724	20.0	17.8	
114 sec-Butylbenzene	105	11.217	11.217	0.000	98	335811	20.0	18.4	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	98	199297	20.0	18.8	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	378852	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.439	11.439	0.000	96	205202	20.0	18.5	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	98	288376	20.0	18.4	
119 1,2,3-Trimethylbenzene	105	11.553	11.553	0.000	97	255668	20.0	18.0	
120 Benzyl chloride	126	11.653	11.653	0.000	99	41632	20.0	17.2	
121 2,3-Dihydroindene	117	11.789	11.789	0.000	94	327563	20.0	18.8	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	98	193588	20.0	18.8	
123 p-Diethylbenzene	119	11.968	11.968	0.000	94	145135	20.0	18.4	
124 n-Butylbenzene	92	11.997	11.997	0.000	98	114327	20.0	18.0	
125 1,2-Dibromo-3-Chloropropan	75	12.797	12.797	0.000	90	20442	20.0	16.7	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	98	190105	20.0	21.1	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	97	116070	20.0	21.0	
128 1,2,4-Trichlorobenzene	180	13.577	13.577	0.000	94	104038	20.0	21.5	
129 Hexachlorobutadiene	225	13.748	13.748	0.000	97	58688	20.0	21.6	
130 Naphthalene	128	13.770	13.770	0.000	99	213107	20.0	20.7	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	95	93611	20.0	20.8	
S 132 1,2-Dichloroethene, Total	100				0		40.0	40.7	
S 133 Xylenes, Total	100				0		40.0	39.5	
S 134 Total BTEX	1				0		100.0	98.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00080	Amount Added: 20.00	Units: uL	
ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
GASES Li_00262	Amount Added: 20.00	Units: uL	
8260SURR250_00178	Amount Added: 1.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396464.D

Injection Date: 01-Jun-2018 12:14:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

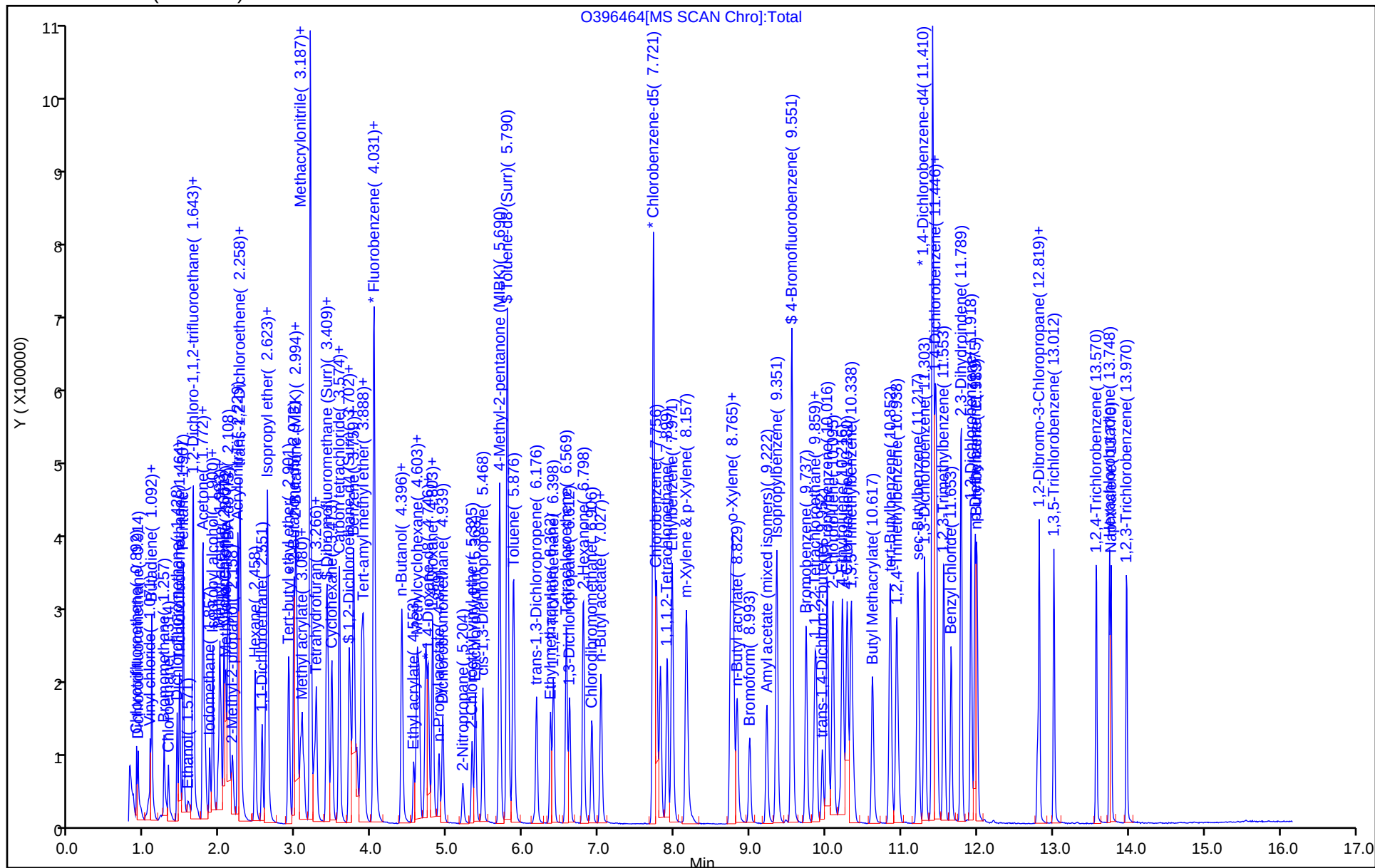
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 460-524327/6

Matrix: Water Lab File ID: O396467.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 13:37

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	18.7		1.0	0.22
74-83-9	Bromomethane	39.3		1.0	0.18
75-01-4	Vinyl chloride	19.7		1.0	0.060
75-00-3	Chloroethane	22.8		1.0	0.37
75-09-2	Methylene Chloride	19.8		1.0	0.21
67-64-1	Acetone	94.4		5.0	1.1
75-15-0	Carbon disulfide	20.8		1.0	0.22
75-69-4	Trichlorofluoromethane	20.3		1.0	0.15
75-35-4	1,1-Dichloroethene	20.7		1.0	0.34
75-34-3	1,1-Dichloroethane	19.8		1.0	0.24
156-60-5	trans-1,2-Dichloroethene	21.3		1.0	0.18
156-59-2	cis-1,2-Dichloroethene	20.1		1.0	0.26
67-66-3	Chloroform	20.7		1.0	0.22
107-06-2	1,2-Dichloroethane	18.8		1.0	0.25
78-93-3	2-Butanone	103		5.0	2.2
71-55-6	1,1,1-Trichloroethane	20.9		1.0	0.28
56-23-5	Carbon tetrachloride	21.6		1.0	0.33
75-27-4	Bromodichloromethane	21.1		1.0	0.15
78-87-5	1,2-Dichloropropane	20.2		1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	19.0		1.0	0.16
79-01-6	Trichloroethene	20.6		1.0	0.22
124-48-1	Dibromochloromethane	19.7		1.0	0.22
79-00-5	1,1,2-Trichloroethane	19.2		1.0	0.080
71-43-2	Benzene	19.6		1.0	0.090
10061-02-6	trans-1,3-Dichloropropene	18.6		1.0	0.19
75-25-2	Bromoform	20.5		1.0	0.18
108-10-1	4-Methyl-2-pentanone	104		5.0	0.63
591-78-6	2-Hexanone	98.2		5.0	0.72
127-18-4	Tetrachloroethene	22.5		1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	19.7		1.0	0.19
108-88-3	Toluene	19.8		1.0	0.25
108-90-7	Chlorobenzene	19.6		1.0	0.24
100-41-4	Ethylbenzene	20.5		1.0	0.30
100-42-5	Styrene	19.6		1.0	0.17
1330-20-7	Xylenes, Total	40.5		2.0	0.28
76-13-1	Freon TF	22.7		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 460-524327/6
 Matrix: Water Lab File ID: O396467.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 13:37
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	19.6		1.0	0.13
110-82-7	Cyclohexane	21.8		1.0	0.26
106-93-4	1,2-Dibromoethane	19.5		1.0	0.19
541-73-1	1,3-Dichlorobenzene	19.4		1.0	0.33
106-46-7	1,4-Dichlorobenzene	19.2		1.0	0.33
95-50-1	1,2-Dichlorobenzene	19.4		1.0	0.22
75-71-8	Dichlorodifluoromethane	19.2		1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	21.7		1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	17.3		1.0	0.23
98-82-8	Isopropylbenzene	20.3		1.0	0.32
108-87-2	Methylcyclohexane	21.3		1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		74-132
2037-26-5	Toluene-d8 (Surr)	89		80-120
460-00-4	Bromofluorobenzene	108		77-124
1868-53-7	Dibromofluoromethane (Surr)	95		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396467.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 01-Jun-2018 13:37:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Misc. Info.: 460-0073036-006
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 19:11:28 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: martineze

Date: 01-Jun-2018 19:12:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.892	0.892	0.000	87	32302	20.0	17.2	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	99	80791	20.0	19.2	
4 Vinyl chloride	62	1.071	1.071	0.000	98	71250	20.0	19.7	
3 Chloromethane	50	1.093	1.092	0.001	98	87395	20.0	18.7	
5 Butadiene	54	1.093	1.092	0.001	95	61757	20.0	19.2	
6 Bromomethane	94	1.257	1.257	0.000	99	65108	20.0	39.3	
7 Chloroethane	64	1.314	1.314	0.000	99	48020	20.0	22.8	
8 Dichlorofluoromethane	67	1.429	1.428	0.001	98	123844	20.0	19.3	
9 Trichlorofluoromethane	101	1.464	1.457	0.007	99	113900	20.0	20.3	
10 Pentane	72	1.507	1.507	0.000	95	21529	40.0	40.8	
11 Ethanol	46	1.572	1.579	-0.007	97	15179	800.0	762.1	
13 Ethyl ether	59	1.636	1.636	0.000	92	55276	20.0	20.2	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	93	67165	20.0	22.3	
14 2-Methyl-1,3-butadiene	53	1.643	1.643	0.000	94	55111	20.0	21.0	
15 Acrolein	56	1.700	1.700	0.000	93	4880	40.0	15.3	
16 1,1-Dichloroethene	96	1.765	1.765	0.000	97	66716	20.0	20.7	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	94	72264	20.0	22.7	
18 Acetone	58	1.800	1.800	0.000	88	32957	100.0	94.4	
19 Iodomethane	127	1.858	1.858	0.000	98	42113	20.0	15.5	
21 Isopropyl alcohol	45	1.893	1.893	0.000	98	46275	200.0	193.3	
20 Carbon disulfide	76	1.900	1.900	0.000	100	200848	20.0	20.8	
22 Acetonitrile	38	1.986	1.986	0.000	95	24248	200.0	193.6	
23 3-Chloro-1-propene	39	1.993	1.993	0.000	92	81547	20.0	18.8	
24 Methyl acetate	74	2.008	2.008	0.000	97	26783	40.0	41.2	
25 Cyclopentene	67	2.051	2.051	0.000	96	156739	20.0	22.5	
26 Methylene Chloride	84	2.072	2.072	0.000	85	78656	20.0	19.8	
* 27 TBA-d9 (IS)	65	2.108	2.101	0.007	0	384164	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.158	2.158	0.000	99	85388	200.0	185.6	
29 Acrylonitrile	53	2.229	2.229	0.000	94	258065	200.0	197.7	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	90	76535	20.0	21.3	
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	96	218506	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.458	2.458	0.000	91	82367	20.0	23.7	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	100	99717	20.0	19.8	
34 Vinyl acetate	86	2.601	2.601	0.000	99	28602	40.0	45.1	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	75	62034	20.0	21.9	
36 Isopropyl ether	45	2.623	2.623	0.000	85	170947	20.0	19.9	
37 Tert-butyl ethyl ether	59	2.902	2.901	0.001	91	173825	20.0	19.9	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	312564	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.002	3.002	0.000	98	75561	20.0	20.1	
39 2,2-Dichloropropane	97	2.994	3.002	-0.008	79	21838	20.0	19.1	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	98	43383	100.0	102.5	
42 Propionitrile	52	3.059	3.059	0.000	98	18326	200.0	198.9	
43 Ethyl acetate	70	3.080	3.080	0.000	99	15160	40.0	39.2	
44 Methyl acrylate	55	3.109	3.109	0.000	99	60299	20.0	18.0	
45 Methacrylonitrile	67	3.188	3.187	0.001	88	303932	200.0	208.2	
46 Chlorobromomethane	128	3.195	3.195	0.000	50	42895	20.0	21.2	
47 Tetrahydrofuran	42	3.238	3.245	-0.007	81	37121	40.0	40.0	
48 Chloroform	83	3.266	3.266	0.000	99	112283	20.0	20.7	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	137184	50.0	47.5	
50 1,1,1-Trichloroethane	97	3.423	3.423	0.000	97	101835	20.0	20.9	
51 Cyclohexane	84	3.474	3.473	0.001	87	92659	20.0	21.8	
53 Carbon tetrachloride	117	3.574	3.566	0.008	96	93915	20.0	21.6	
52 1,1-Dichloropropene	75	3.574	3.574	0.000	93	86487	20.0	21.1	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	131193	50.0	41.8	
55 Isobutyl alcohol	43	3.724	3.724	0.000	98	59105	500.0	422.8	
56 Benzene	78	3.760	3.759	0.001	95	253033	20.0	19.6	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	85718	20.0	18.8	
58 Isooctane	57	3.860	3.860	0.000	96	142872	20.0	20.2	
59 Isopropyl acetate	61	3.867	3.867	0.000	98	24724	20.0	18.6	
60 Tert-amyl methyl ether	73	3.888	3.888	0.000	99	195530	20.0	19.3	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	586506	50.0	50.0	
62 n-Heptane	43	4.053	4.053	0.000	88	57002	20.0	18.3	
63 n-Butanol	56	4.389	4.389	0.000	87	42863	500.0	424.7	
64 Trichloroethene	95	4.396	4.396	0.000	95	72554	20.0	20.6	
65 Ethyl acrylate	55	4.553	4.553	0.000	98	80900	20.0	18.3	
66 Methylcyclohexane	83	4.596	4.603	-0.007	94	106531	20.0	21.3	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	90	62177	20.0	20.2	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	49766	1000.0	1000.0	
69 Dibromomethane	93	4.746	4.746	0.000	89	48608	20.0	20.6	
70 1,4-Dioxane	88	4.796	4.803	-0.007	32	22599	400.0	405.2	
71 Methyl methacrylate	100	4.803	4.803	0.000	81	45519	40.0	39.8	
72 n-Propyl acetate	43	4.889	4.889	0.000	97	86362	20.0	19.1	
73 Dichlorobromomethane	83	4.939	4.939	0.000	99	94190	20.0	21.1	
74 2-Nitropropane	41	5.204	5.204	0.000	99	34112	40.0	36.7	
75 2-Chloroethyl vinyl ether	63	5.325	5.325	0.000	94	50510	20.0	19.7	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	153257	400.0	421.1	
77 cis-1,3-Dichloropropene	75	5.468	5.468	0.000	92	106104	20.0	19.0	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	94	316201	100.0	104.0	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	557934	50.0	44.4	
80 Toluene	91	5.876	5.876	0.000	93	309909	20.0	19.8	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	96	100096	20.0	18.6	
82 Ethyl methacrylate	69	6.362	6.362	0.000	87	90601	20.0	18.2	
83 1,1,2-Trichloroethane	83	6.398	6.398	0.000	93	55262	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.570	6.570	0.000	96	99364	20.0	22.5	
85 1,3-Dichloropropane	76	6.613	6.612	0.000	92	110591	20.0	19.8	
86 2-Hexanone	43	6.791	6.791	0.000	93	220778	100.0	98.2	
87 Chlorodibromomethane	129	6.906	6.906	0.000	97	86671	20.0	19.7	
88 n-Butyl acetate	43	7.020	7.027	-0.007	98	95163	20.0	17.1	
89 Ethylene Dibromide	107	7.034	7.034	0.000	100	77987	20.0	19.5	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	83	579363	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	98	221941	20.0	19.6	
92 1,1,1,2-Tetrachloroethane	131	7.907	7.907	0.000	95	80330	20.0	19.7	
93 Ethylbenzene	106	7.971	7.971	0.000	97	119282	20.0	20.5	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	147616	20.0	20.4	
95 o-Xylene	106	8.743	8.743	0.000	95	144060	20.0	20.1	
96 Styrene	104	8.772	8.772	0.000	96	246955	20.0	19.6	
97 n-Butyl acrylate	73	8.829	8.829	0.000	98	53148	20.0	17.7	
98 Bromoform	173	8.994	8.993	0.001	95	71093	20.0	20.5	
99 Amyl acetate (mixed isomer	43	9.222	9.222	0.000	92	110124	20.0	16.9	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	354530	20.0	20.3	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	288234	50.0	53.8	
102 Bromobenzene	156	9.737	9.744	-0.007	86	116859	20.0	20.7	
103 1,1,2,2-Tetrachloroethane	83	9.852	9.851	0.001	97	102802	20.0	19.7	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	96	33880	20.0	19.2	
105 trans-1,4-Dichloro-2-buten	53	9.952	9.959	-0.007	93	24935	20.0	15.9	
106 N-Propylbenzene	91	10.016	10.016	0.000	100	374531	20.0	18.9	
107 2-Chlorotoluene	91	10.095	10.095	0.000	96	259232	20.0	19.1	
108 4-Ethyltoluene	105	10.216	10.216	0.000	99	332420	20.0	18.8	
109 4-Chlorotoluene	91	10.281	10.280	0.001	94	276405	20.0	20.2	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	94	254997	20.0	18.0	
111 Butyl Methacrylate	87	10.617	10.617	0.000	88	90354	20.0	16.7	
112 tert-Butylbenzene	119	10.853	10.853	0.001	96	252725	20.0	18.8	
113 1,2,4-Trimethylbenzene	105	10.938	10.938	0.000	96	243318	20.0	17.8	
114 sec-Butylbenzene	105	11.217	11.217	0.000	99	335761	20.0	18.8	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	98	201473	20.0	19.4	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	372235	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.446	11.446	0.000	96	208358	20.0	19.2	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	98	283928	20.0	18.4	
119 1,2,3-Trimethylbenzene	105	11.553	11.560	-0.007	97	254796	20.0	18.3	
120 Benzyl chloride	126	11.653	11.653	0.000	100	40811	20.0	17.1	
121 2,3-Dihydroindene	117	11.789	11.789	0.000	94	328322	20.0	19.2	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	98	196685	20.0	19.4	
123 p-Diethylbenzene	119	11.968	11.968	0.000	94	144200	20.0	18.6	
124 n-Butylbenzene	92	11.997	11.997	0.000	96	111772	20.0	17.9	
125 1,2-Dibromo-3-Chloropropan	75	12.797	12.797	0.000	90	20762	20.0	17.3	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	98	190704	20.0	21.6	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	97	114339	20.0	21.1	
128 1,2,4-Trichlorobenzene	180	13.570	13.577	-0.007	94	103381	20.0	21.7	
129 Hexachlorobutadiene	225	13.748	13.748	0.000	95	58143	20.0	21.8	
130 Naphthalene	128	13.770	13.770	0.000	99	209718	20.0	20.7	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	95	95779	20.0	21.7	
S 132 1,2-Dichloroethene, Total	100				0		40.0	41.3	
S 133 Xylenes, Total	100				0		40.0	40.5	
S 134 Total BTEX	1				0		100.0	100.5	

Reagents:

GASES Li_00262	Amount Added: 20.00	Units: uL	
8260MIX1COMB_00080	Amount Added: 20.00	Units: uL	
ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
8260SURR250_00178	Amount Added: 1.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396467.D

Injection Date: 01-Jun-2018 13:37:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

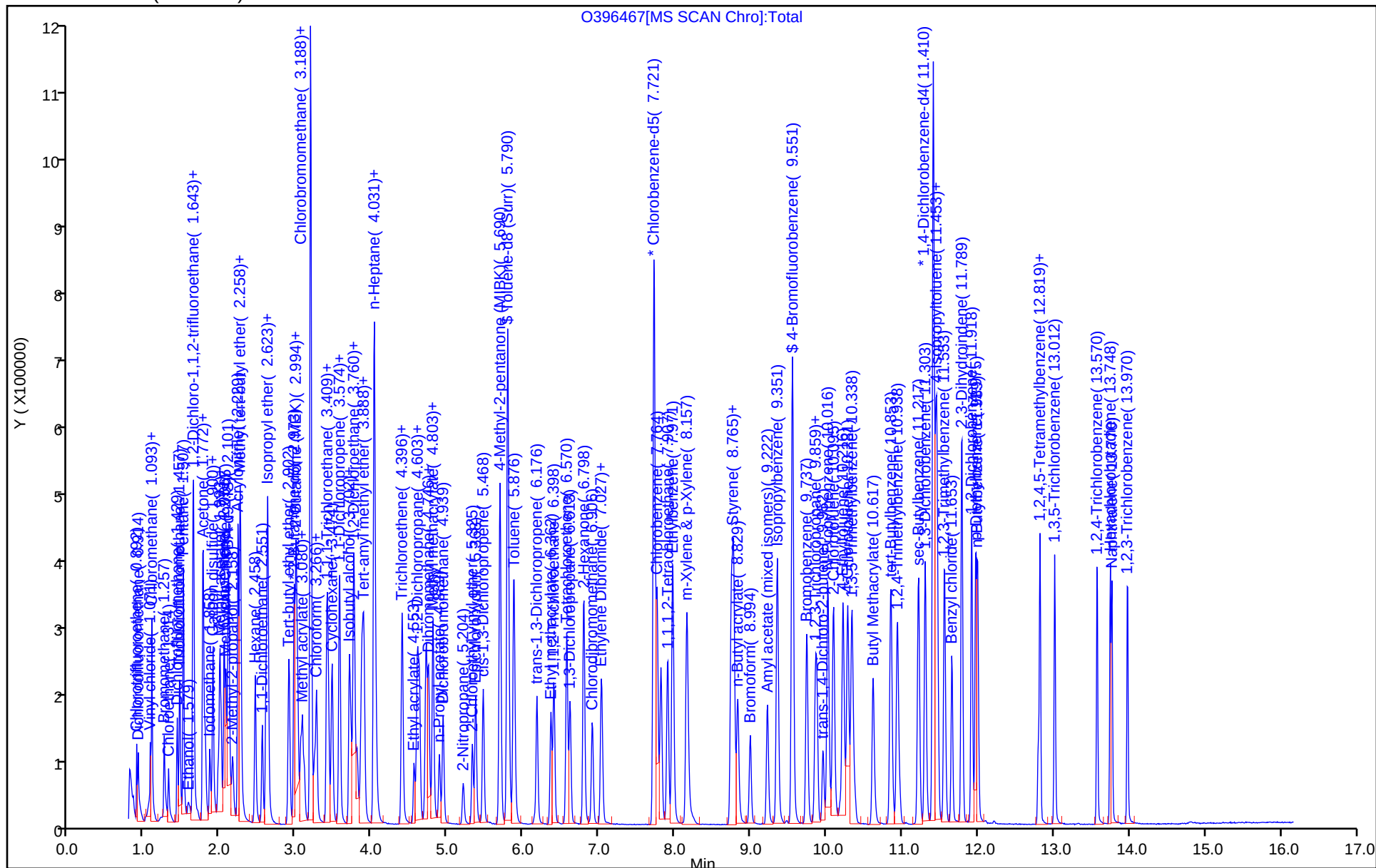
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-157038-1</u>
SDG No.: _____	
Client Sample ID: <u>NL-MW-3-20180525 MS</u>	Lab Sample ID: <u>460-157038-1 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>O396476.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>05/25/2018 11:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>06/01/2018 19:52</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>524327</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	60.6		5.0	1.1
74-83-9	Bromomethane	208		5.0	0.90
75-01-4	Vinyl chloride	96.4		5.0	0.30
75-00-3	Chloroethane	112		5.0	1.9
75-09-2	Methylene Chloride	98.2		5.0	1.1
67-64-1	Acetone	463		25	5.4
75-15-0	Carbon disulfide	102		5.0	1.1
75-69-4	Trichlorofluoromethane	99.6		5.0	0.75
75-35-4	1,1-Dichloroethene	100		5.0	1.7
75-34-3	1,1-Dichloroethane	98.1		5.0	1.2
156-60-5	trans-1,2-Dichloroethene	111		5.0	0.90
156-59-2	cis-1,2-Dichloroethene	126		5.0	1.3
67-66-3	Chloroform	115		5.0	1.1
107-06-2	1,2-Dichloroethane	92.1		5.0	1.3
78-93-3	2-Butanone	512		25	11
71-55-6	1,1,1-Trichloroethane	104		5.0	1.4
56-23-5	Carbon tetrachloride	107		5.0	1.7
75-27-4	Bromodichloromethane	104		5.0	0.75
78-87-5	1,2-Dichloropropane	101		5.0	0.90
10061-01-5	cis-1,3-Dichloropropene	96.0		5.0	0.80
79-01-6	Trichloroethene	870		5.0	1.1
124-48-1	Dibromochloromethane	100		5.0	1.1
79-00-5	1,1,2-Trichloroethane	96.8		5.0	0.40
71-43-2	Benzene	104		5.0	0.45
10061-02-6	trans-1,3-Dichloropropene	91.2		5.0	0.95
75-25-2	Bromoform	104		5.0	0.90
108-10-1	4-Methyl-2-pentanone	528		25	3.2
591-78-6	2-Hexanone	502		25	3.6
127-18-4	Tetrachloroethene	114		5.0	0.60
79-34-5	1,1,2,2-Tetrachloroethane	91.6		5.0	0.95
108-88-3	Toluene	99.5		5.0	1.3
108-90-7	Chlorobenzene	98.0		5.0	1.2
100-41-4	Ethylbenzene	108		5.0	1.5
100-42-5	Styrene	98.4		5.0	0.85
1330-20-7	Xylenes, Total	204		10	1.4
76-13-1	Freon TF	112		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-MW-3-20180525 MS Lab Sample ID: 460-157038-1 MS

Matrix: Water Lab File ID: O396476.D

Analysis Method: 8260C Date Collected: 05/25/2018 11:30

Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 19:52

Soil Aliquot Vol: _____ Dilution Factor: 5

Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	95.5		5.0	0.65
110-82-7	Cyclohexane	135		5.0	1.3
106-93-4	1,2-Dibromoethane	97.1		5.0	0.95
541-73-1	1,3-Dichlorobenzene	95.7		5.0	1.7
106-46-7	1,4-Dichlorobenzene	94.0		5.0	1.7
95-50-1	1,2-Dichlorobenzene	96.1		5.0	1.1
75-71-8	Dichlorodifluoromethane	93.6		5.0	0.70
120-82-1	1,2,4-Trichlorobenzene	115		5.0	1.4
96-12-8	1,2-Dibromo-3-Chloropropane	77.5		5.0	1.2
98-82-8	Isopropylbenzene	107		5.0	1.6
108-87-2	Methylcyclohexane	121		5.0	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		74-132
2037-26-5	Toluene-d8 (Surr)	91		80-120
460-00-4	Bromofluorobenzene	113		77-124
1868-53-7	Dibromofluoromethane (Surr)	96		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396476.D
 Lims ID: 460-157038-B-1 MS
 Client ID: NL-MW-3-20180525
 Sample Type: MS
 Inject. Date: 01-Jun-2018 19:52:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 460-157038-B-1 MS
 Misc. Info.: 460-0073036-015
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 18:36:42 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: baronm

Date: 01-Jun-2018 21:00:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.899	0.892	0.007	85	31659	20.0	17.6	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	98	80047	20.0	18.7	
4 Vinyl chloride	62	1.078	1.071	0.007	97	70773	20.0	19.3	
3 Chloromethane	50	1.064	1.092	-0.028	99	57593	20.0	12.1	
5 Butadiene	54	1.100	1.092	0.008	94	61542	20.0	18.9	
6 Bromomethane	94	1.257	1.257	0.000	99	65932	20.0	41.6	
7 Chloroethane	64	1.314	1.314	0.000	99	47751	20.0	22.3	
8 Dichlorofluoromethane	67	1.428	1.428	0.000	98	122101	20.0	18.7	
9 Trichlorofluoromethane	101	1.464	1.457	0.007	98	113394	20.0	19.9	
10 Pentane	72	1.514	1.507	0.007	95	23467	40.0	43.8	
11 Ethanol	46	1.579	1.579	0.000	96	13529	800.0	715.3	
13 Ethyl ether	59	1.636	1.636	0.000	95	55400	20.0	19.9	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	94	65645	20.0	21.4	
14 2-Methyl-1,3-butadiene	53	1.650	1.643	0.007	95	51890	20.0	19.5	
15 Acrolein	56	1.700	1.700	0.000	88	6228	40.0	20.6	
16 1,1-Dichloroethene	96	1.772	1.765	0.007	96	65432	20.0	20.0	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	95	72771	20.0	22.5	
18 Acetone	58	1.800	1.800	0.000	89	30967	100.0	92.7	
19 Iodomethane	127	1.857	1.858	-0.001	98	33936	20.0	12.3	
21 Isopropyl alcohol	45	1.893	1.893	0.000	97	42211	200.0	185.7	
20 Carbon disulfide	76	1.900	1.900	0.000	99	199825	20.0	20.4	
22 Acetonitrile	38	1.993	1.986	0.007	93	22622	200.0	190.3	
23 3-Chloro-1-propene	39	1.993	1.993	0.000	92	79825	20.0	18.2	
24 Methyl acetate	74	2.015	2.008	0.007	98	26177	40.0	42.5	
25 Cyclopentene	67	2.051	2.051	0.000	95	157573	20.0	22.3	
26 Methylene Chloride	84	2.072	2.072	0.000	87	79230	20.0	19.6	
* 27 TBA-d9 (IS)	65	2.108	2.101	0.007	0	364628	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.158	2.158	0.000	98	77030	200.0	176.3	
29 Acrylonitrile	53	2.236	2.229	0.007	95	255319	200.0	192.7	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	90	81446	20.0	22.3	
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	96	215994	20.0	19.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.458	2.458	0.000	90	86844	20.0	24.6	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	99	100167	20.0	19.6	
34 Vinyl acetate	86	2.601	2.601	0.000	99	28748	40.0	47.3	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	76	60636	20.0	21.1	
36 Isopropyl ether	45	2.623	2.623	0.000	84	167005	20.0	19.1	
37 Tert-butyl ethyl ether	59	2.901	2.901	0.000	91	173319	20.0	19.5	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	299240	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.002	3.002	0.000	98	96127	20.0	25.2	
39 2,2-Dichloropropane	97	3.002	3.002	0.000	91	24055	20.0	20.7	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	98	41469	100.0	102.3	
42 Propionitrile	52	3.059	3.059	0.000	94	17825	200.0	203.9	
43 Ethyl acetate	70	3.087	3.080	0.007	99	14505	40.0	39.2	
44 Methyl acrylate	55	3.109	3.109	0.000	99	58054	20.0	17.1	
45 Methacrylonitrile	67	3.187	3.187	0.000	88	291373	200.0	196.6	
46 Chlorobromomethane	128	3.195	3.195	0.000	75	43323	20.0	21.0	
47 Tetrahydrofuran	42	3.245	3.245	0.000	85	34753	40.0	39.1	
48 Chloroform	83	3.266	3.266	0.000	99	126718	20.0	23.0	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	99	141494	50.0	48.2	
50 1,1,1-Trichloroethane	97	3.423	3.423	0.000	97	102647	20.0	20.7	
51 Cyclohexane	84	3.473	3.473	0.000	87	116194	20.0	26.9	
53 Carbon tetrachloride	117	3.574	3.566	0.008	96	94725	20.0	21.5	
52 1,1-Dichloropropene	75	3.574	3.574	0.000	93	86246	20.0	20.7	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	132110	50.0	41.4	
55 Isobutyl alcohol	43	3.724	3.724	0.000	97	51322	500.0	386.8	
56 Benzene	78	3.759	3.759	0.000	95	269814	20.0	20.9	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	85297	20.0	18.4	
58 Isooctane	57	3.860	3.860	0.000	98	158699	20.0	22.1	
59 Isopropyl acetate	61	3.874	3.867	0.007	97	24555	20.0	18.2	
60 Tert-amyl methyl ether	73	3.895	3.888	0.007	92	194764	20.0	19.0	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	595434	50.0	50.0	
62 n-Heptane	43	4.053	4.053	0.000	87	60458	20.0	19.1	
63 n-Butanol	56	4.389	4.389	0.000	86	37753	500.0	394.1	
64 Trichloroethene	95	4.403	4.396	0.007	95	622841	20.0	174.1	
65 Ethyl acrylate	55	4.553	4.553	0.000	98	77882	20.0	17.4	
66 Methylcyclohexane	83	4.596	4.603	-0.007	94	122568	20.0	24.1	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	91	62858	20.0	20.2	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	44321	1000.0	1000.0	
69 Dibromomethane	93	4.746	4.746	0.000	89	47433	20.0	19.8	
70 1,4-Dioxane	88	4.796	4.803	-0.007	31	18972	400.0	381.9	
71 Methyl methacrylate	100	4.803	4.803	0.000	80	44345	40.0	38.2	
72 n-Propyl acetate	43	4.889	4.889	0.000	96	82925	20.0	18.1	
73 Dichlorobromomethane	83	4.939	4.939	0.000	99	94332	20.0	20.8	
74 2-Nitropropane	41	5.204	5.204	0.000	99	33190	40.0	35.2	
75 2-Chloroethyl vinyl ether	63	5.325	5.325	0.000	78	2225	20.0	0.8554	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	135757	400.0	389.6	
77 cis-1,3-Dichloropropene	75	5.468	5.468	0.000	92	106934	20.0	19.2	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	94	307164	100.0	105.6	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	572935	50.0	45.6	
80 Toluene	91	5.876	5.876	0.000	93	310943	20.0	19.9	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	96	98328	20.0	18.2	
82 Ethyl methacrylate	69	6.362	6.362	0.000	86	87417	20.0	17.5	
83 1,1,2-Trichloroethane	83	6.398	6.398	0.000	94	55662	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.569	6.570	-0.001	95	100766	20.0	22.8	
85 1,3-Dichloropropane	76	6.612	6.612	0.000	91	108844	20.0	19.5	
86 2-Hexanone	43	6.798	6.791	0.007	93	216117	100.0	100.4	
87 Chlorodibromomethane	129	6.913	6.906	0.007	97	88190	20.0	20.1	
88 n-Butyl acetate	43	7.027	7.027	0.000	98	94211	20.0	16.9	
89 Ethylene Dibromide	107	7.034	7.034	0.000	98	77572	20.0	19.4	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	83	579032	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	98	221434	20.0	19.6	
92 1,1,1,2-Tetrachloroethane	131	7.907	7.907	0.000	95	80719	20.0	19.8	
93 Ethylbenzene	106	7.971	7.971	0.000	97	125900	20.0	21.7	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	148350	20.0	20.5	
95 o-Xylene	106	8.743	8.743	0.000	95	145630	20.0	20.3	
96 Styrene	104	8.772	8.772	0.000	97	248033	20.0	19.7	
97 n-Butyl acrylate	73	8.829	8.829	0.000	98	53631	20.0	17.9	
98 Bromoform	173	8.993	8.993	0.000	95	71885	20.0	20.7	
99 Amyl acetate (mixed isomer	43	9.215	9.222	-0.007	93	110799	20.0	16.3	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	374968	20.0	21.4	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	96	303119	50.0	56.6	
102 Bromobenzene	156	9.737	9.744	-0.007	85	119278	20.0	20.2	
103 1,1,2,2-Tetrachloroethane	83	9.851	9.851	0.000	96	100187	20.0	18.3	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	96	32986	20.0	17.9	
105 trans-1,4-Dichloro-2-buten	53	9.952	9.959	-0.007	93	23218	20.0	14.2	
106 N-Propylbenzene	91	10.016	10.016	0.000	100	399864	20.0	19.4	
107 2-Chlorotoluene	91	10.087	10.095	-0.008	95	260053	20.0	18.3	
108 4-Ethyltoluene	105	10.216	10.216	0.000	98	350931	20.0	19.0	
109 4-Chlorotoluene	91	10.280	10.280	0.000	94	253714	20.0	17.7	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	94	280338	20.0	19.0	
111 Butyl Methacrylate	87	10.617	10.617	0.000	88	91651	20.0	16.2	
112 tert-Butylbenzene	119	10.845	10.853	-0.007	96	270456	20.0	19.3	
113 1,2,4-Trimethylbenzene	105	10.938	10.938	0.000	96	272465	20.0	19.0	
114 sec-Butylbenzene	105	11.217	11.217	0.000	98	364754	20.0	19.5	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	98	208074	20.0	19.1	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	389003	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.439	11.446	-0.007	96	213799	20.0	18.8	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	97	311703	20.0	19.4	
119 1,2,3-Trimethylbenzene	105	11.560	11.560	0.000	97	284058	20.0	19.5	
120 Benzyl chloride	126	11.653	11.653	0.000	100	41768	20.0	16.8	
121 2,3-Dihydroindene	117	11.789	11.789	0.000	94	349947	20.0	19.6	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	98	203700	20.0	19.2	
123 p-Diethylbenzene	119	11.968	11.968	0.000	94	160280	20.0	19.7	
124 n-Butylbenzene	92	11.997	11.997	0.000	96	126995	20.0	19.4	
125 1,2-Dibromo-3-Chloropropan	75	12.797	12.797	0.000	90	19434	20.0	15.5	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	98	221035	20.0	23.9	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	97	131853	20.0	23.3	
128 1,2,4-Trichlorobenzene	180	13.577	13.577	0.000	94	114937	20.0	23.1	
129 Hexachlorobutadiene	225	13.748	13.748	0.000	97	64055	20.0	22.9	
130 Naphthalene	128	13.770	13.770	0.000	99	237077	20.0	22.4	
131 1,2,3-Trichlorobenzene	180	13.977	13.977	0.000	94	106339	20.0	23.0	
S 132 1,2-Dichloroethene, Total	100				0		40.0	47.5	
S 133 Xylenes, Total	100				0		40.0	40.9	
S 134 Total BTEX	1				0		100.0	103.3	

Reagents:

GASES Li_00262	Amount Added: 20.00	Units: uL	
8260MIX1COMB_00080	Amount Added: 20.00	Units: uL	
ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
8260SURR250_00178	Amount Added: 1.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396476.D

Injection Date: 01-Jun-2018 19:52:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: 460-157038-B-1 MS

Worklist Smp#: 15

Client ID: NL-MW-3-20180525

Purge Vol: 5.000 mL

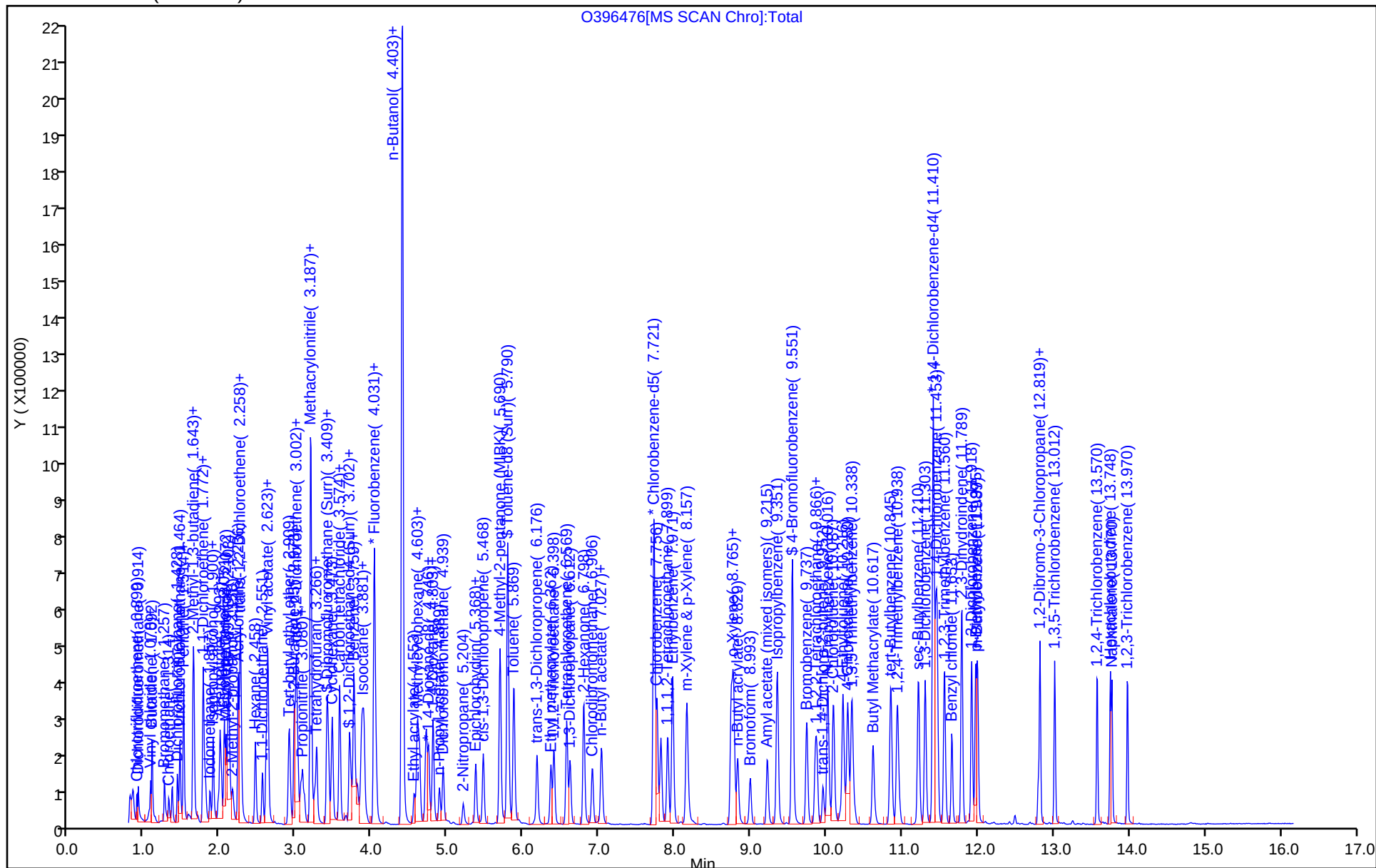
Dil. Factor: 5.0000

ALS Bottle#: 14

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-157038-1</u>
SDG No.: _____	
Client Sample ID: <u>NL-MW-3-20180525 MSD</u>	Lab Sample ID: <u>460-157038-1 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>O396477.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>05/25/2018 11:30</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>06/01/2018 20:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>524327</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	37.2		5.0	1.1
74-83-9	Bromomethane	212		5.0	0.90
75-01-4	Vinyl chloride	102		5.0	0.30
75-00-3	Chloroethane	118		5.0	1.9
75-09-2	Methylene Chloride	105		5.0	1.1
67-64-1	Acetone	479		25	5.4
75-15-0	Carbon disulfide	107		5.0	1.1
75-69-4	Trichlorofluoromethane	106		5.0	0.75
75-35-4	1,1-Dichloroethene	104		5.0	1.7
75-34-3	1,1-Dichloroethane	108		5.0	1.2
156-60-5	trans-1,2-Dichloroethene	116		5.0	0.90
156-59-2	cis-1,2-Dichloroethene	131		5.0	1.3
67-66-3	Chloroform	119		5.0	1.1
107-06-2	1,2-Dichloroethane	98.3		5.0	1.3
78-93-3	2-Butanone	552		25	11
71-55-6	1,1,1-Trichloroethane	108		5.0	1.4
56-23-5	Carbon tetrachloride	114		5.0	1.7
75-27-4	Bromodichloromethane	110		5.0	0.75
78-87-5	1,2-Dichloropropane	107		5.0	0.90
10061-01-5	cis-1,3-Dichloropropene	99.4		5.0	0.80
79-01-6	Trichloroethene	913		5.0	1.1
124-48-1	Dibromochloromethane	106		5.0	1.1
79-00-5	1,1,2-Trichloroethane	101		5.0	0.40
71-43-2	Benzene	110		5.0	0.45
10061-02-6	trans-1,3-Dichloropropene	96.5		5.0	0.95
75-25-2	Bromoform	108		5.0	0.90
108-10-1	4-Methyl-2-pentanone	569		25	3.2
591-78-6	2-Hexanone	549		25	3.6
127-18-4	Tetrachloroethene	119		5.0	0.60
79-34-5	1,1,2,2-Tetrachloroethane	96.3		5.0	0.95
108-88-3	Toluene	103		5.0	1.3
108-90-7	Chlorobenzene	103		5.0	1.2
100-41-4	Ethylbenzene	114		5.0	1.5
100-42-5	Styrene	103		5.0	0.85
1330-20-7	Xylenes, Total	212		10	1.4
76-13-1	Freon TF	115		5.0	1.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Client Sample ID: NL-MW-3-20180525 MSD Lab Sample ID: 460-157038-1 MSD
 Matrix: Water Lab File ID: O396477.D
 Analysis Method: 8260C Date Collected: 05/25/2018 11:30
 Sample wt/vol: 5 (mL) Date Analyzed: 06/01/2018 20:19
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 524327 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	102		5.0	0.65
110-82-7	Cyclohexane	140		5.0	1.3
106-93-4	1,2-Dibromoethane	101		5.0	0.95
541-73-1	1,3-Dichlorobenzene	101		5.0	1.7
106-46-7	1,4-Dichlorobenzene	99.0		5.0	1.7
95-50-1	1,2-Dichlorobenzene	102		5.0	1.1
75-71-8	Dichlorodifluoromethane	98.5		5.0	0.70
120-82-1	1,2,4-Trichlorobenzene	120		5.0	1.4
96-12-8	1,2-Dibromo-3-Chloropropane	85.1		5.0	1.2
98-82-8	Isopropylbenzene	111		5.0	1.6
108-87-2	Methylcyclohexane	127		5.0	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		74-132
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	Bromofluorobenzene	119		77-124
1868-53-7	Dibromofluoromethane (Surr)	103		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\O396477.D
 Lims ID: 460-157038-B-1 MSD
 Client ID: NL-MW-3-20180525
 Sample Type: MSD
 Inject. Date: 01-Jun-2018 20:19:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 5.0000
 Sample Info: 460-157038-B-1 MSD
 Misc. Info.: 460-0073036-016
 Operator ID: Instrument ID: CVOAMS12
 Method: \\ChromNA\Edison\ChromData\CVOAMS12\20180601-73036.b\8260W_12.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 01-Jun-2018 18:36:42 Calib Date: 24-May-2018 16:43:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS12\20180524-72608.b\O39399.D
 Column 1 : DB-624 (0.18 mm) Det: MS SCAN
 Process Host: XAWRK006

First Level Reviewer: baronm

Date: 01-Jun-2018 21:01:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.899	0.892	0.007	85	31256	20.0	19.1	
2 Dichlorodifluoromethane	85	0.914	0.914	0.000	98	77845	20.0	19.7	
4 Vinyl chloride	62	1.078	1.071	0.007	98	69024	20.0	20.3	
3 Chloromethane	50	1.092	1.092	0.000	53	32644	20.0	7.43	
5 Butadiene	54	1.100	1.092	0.008	95	59845	20.0	19.9	
6 Bromomethane	94	1.257	1.257	0.000	98	61390	20.0	42.4	
7 Chloroethane	64	1.314	1.314	0.000	99	46505	20.0	23.5	
8 Dichlorofluoromethane	67	1.429	1.428	0.001	98	120553	20.0	20.0	
9 Trichlorofluoromethane	101	1.464	1.457	0.007	99	111704	20.0	21.2	
10 Pentane	72	1.514	1.507	0.007	94	22313	40.0	45.0	
11 Ethanol	46	1.579	1.579	0.000	96	13508	800.0	784.8	
13 Ethyl ether	59	1.636	1.636	0.000	93	53152	20.0	20.7	
12 1,2-Dichloro-1,1,2-trifluo	117	1.636	1.636	0.000	93	62599	20.0	22.1	
14 2-Methyl-1,3-butadiene	53	1.650	1.643	0.007	96	51122	20.0	20.8	
15 Acrolein	56	1.700	1.700	0.000	91	6697	40.0	24.3	
16 1,1-Dichloroethene	96	1.772	1.765	0.007	96	62945	20.0	20.8	
17 1,1,2-Trichloro-1,2,2-trif	101	1.772	1.772	0.000	94	68611	20.0	22.9	
18 Acetone	58	1.800	1.800	0.000	88	29254	100.0	95.9	
19 Iodomethane	127	1.865	1.858	0.007	98	36267	20.0	14.2	
21 Isopropyl alcohol	45	1.893	1.893	0.000	98	41667	200.0	201.3	
20 Carbon disulfide	76	1.900	1.900	0.000	99	193623	20.0	21.4	
22 Acetonitrile	38	2.051	1.986	0.065	30	6771	200.0	62.6	
23 3-Chloro-1-propene	39	1.993	1.993	0.000	92	78319	20.0	19.3	
24 Methyl acetate	74	2.008	2.008	0.000	98	25358	40.0	45.2	
25 Cyclopentene	67	2.051	2.051	0.000	95	151233	20.0	23.2	
26 Methylene Chloride	84	2.072	2.072	0.000	85	77959	20.0	20.9	
* 27 TBA-d9 (IS)	65	2.108	2.101	0.007	0	332058	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.158	2.158	0.000	98	74341	200.0	186.9	
29 Acrylonitrile	53	2.237	2.229	0.008	94	249995	200.0	204.2	
30 trans-1,2-Dichloroethene	96	2.258	2.258	0.000	90	78101	20.0	23.1	
31 Methyl tert-butyl ether	73	2.265	2.265	0.000	96	213331	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.458	2.458	0.000	91	83849	20.0	25.7	
33 1,1-Dichloroethane	63	2.551	2.551	0.000	99	101893	20.0	21.6	
34 Vinyl acetate	86	2.601	2.601	0.000	99	29305	40.0	52.8	
35 2-Chloro-1,3-butadiene	88	2.623	2.623	0.000	76	59609	20.0	22.4	
36 Isopropyl ether	45	2.623	2.623	0.000	83	164520	20.0	20.4	
37 Tert-butyl ethyl ether	59	2.901	2.901	0.000	91	171034	20.0	20.9	
* 38 2-Butanone-d5	46	2.973	2.973	0.000	0	273371	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.002	3.002	0.000	98	92096	20.0	26.1	
39 2,2-Dichloropropane	97	3.002	3.002	0.000	82	22421	20.0	20.9	
41 2-Butanone (MEK)	72	3.023	3.023	0.000	98	40855	100.0	110.4	
42 Propionitrile	52	3.059	3.059	0.000	95	17200	200.0	216.0	
43 Ethyl acetate	70	3.080	3.080	0.000	99	14004	40.0	41.4	
44 Methyl acrylate	55	3.109	3.109	0.000	99	55651	20.0	17.7	
45 Methacrylonitrile	67	3.188	3.187	0.001	90	286098	200.0	208.9	
46 Chlorobromomethane	128	3.195	3.195	0.000	78	41811	20.0	22.0	
47 Tetrahydrofuran	42	3.245	3.245	0.000	88	34629	40.0	42.7	
48 Chloroform	83	3.266	3.266	0.000	99	120930	20.0	23.8	
\$ 49 Dibromofluoromethane (Surr	113	3.402	3.402	0.000	98	139774	50.0	51.5	
50 1,1,1-Trichloroethane	97	3.423	3.423	0.000	97	99259	20.0	21.7	
51 Cyclohexane	84	3.474	3.473	0.001	88	111455	20.0	28.0	
53 Carbon tetrachloride	117	3.574	3.566	0.008	95	92602	20.0	22.7	
52 1,1-Dichloropropene	75	3.574	3.574	0.000	94	84623	20.0	22.0	
\$ 54 1,2-Dichloroethane-d4 (Sur	65	3.702	3.702	0.000	0	131725	50.0	44.7	
55 Isobutyl alcohol	43	3.724	3.724	0.000	95	51775	500.0	428.5	
56 Benzene	78	3.760	3.759	0.001	95	262822	20.0	21.9	
57 1,2-Dichloroethane	62	3.774	3.774	0.000	98	84071	20.0	19.7	
58 Isooctane	57	3.860	3.860	0.000	97	153307	20.0	23.1	
59 Isopropyl acetate	61	3.867	3.867	0.000	97	23865	20.0	19.2	
60 Tert-amyl methyl ether	73	3.895	3.888	0.007	97	189912	20.0	20.0	
* 61 Fluorobenzene	96	4.031	4.031	0.000	99	550220	50.0	50.0	
62 n-Heptane	43	4.053	4.053	0.000	86	58010	20.0	19.9	
63 n-Butanol	56	4.389	4.389	0.000	88	37640	500.0	431.5	
64 Trichloroethene	95	4.396	4.396	0.000	95	603608	20.0	182.6	
65 Ethyl acrylate	55	4.553	4.553	0.000	98	78202	20.0	18.9	
66 Methylcyclohexane	83	4.596	4.603	-0.007	94	119231	20.0	25.4	
67 1,2-Dichloropropane	63	4.625	4.625	0.000	91	61670	20.0	21.4	
* 68 1,4-Dioxane-d8	96	4.746	4.746	0.000	0	39770	1000.0	1000.0	
69 Dibromomethane	93	4.746	4.746	0.000	89	46980	20.0	21.2	
70 1,4-Dioxane	88	4.803	4.803	0.000	31	19158	400.0	429.8	
71 Methyl methacrylate	100	4.803	4.803	0.000	80	43925	40.0	40.9	
72 n-Propyl acetate	43	4.889	4.889	0.000	97	82448	20.0	19.4	
73 Dichlorobromomethane	83	4.939	4.939	0.000	98	91982	20.0	22.0	
74 2-Nitropropane	41	5.204	5.204	0.000	99	32820	40.0	37.7	
75 2-Chloroethyl vinyl ether	63	5.333	5.325	0.008	63	745	20.0	0.3100	
76 Epichlorohydrin	57	5.368	5.368	0.000	99	135295	400.0	425.0	
77 cis-1,3-Dichloropropene	75	5.468	5.468	0.000	92	102800	20.0	19.9	
78 4-Methyl-2-pentanone (MIBK	43	5.690	5.690	0.000	95	302709	100.0	113.9	
\$ 79 Toluene-d8 (Surr)	98	5.790	5.790	0.000	100	561622	50.0	48.2	
80 Toluene	91	5.876	5.876	0.000	93	299900	20.0	20.7	
81 trans-1,3-Dichloropropene	75	6.176	6.176	0.000	97	96512	20.0	19.3	
82 Ethyl methacrylate	69	6.362	6.362	0.000	87	90250	20.0	19.5	
83 1,1,1,2-Trichloroethane	83	6.398	6.398	0.000	93	54060	20.0	20.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.570	6.570	0.000	96	97725	20.0	23.9	
85 1,3-Dichloropropane	76	6.612	6.612	0.000	91	107554	20.0	20.7	
86 2-Hexanone	43	6.798	6.791	0.007	94	216041	100.0	109.9	
87 Chlorodibromomethane	129	6.906	6.906	0.000	97	86122	20.0	21.1	
88 n-Butyl acetate	43	7.020	7.027	-0.007	98	92467	20.0	17.9	
89 Ethylene Dibromide	107	7.034	7.034	0.000	100	74964	20.0	20.2	
* 90 Chlorobenzene-d5	117	7.721	7.721	0.000	83	537311	50.0	50.0	
91 Chlorobenzene	112	7.764	7.764	0.000	98	215577	20.0	20.6	
92 1,1,1,2-Tetrachloroethane	131	7.900	7.907	-0.007	94	80330	20.0	21.3	
93 Ethylbenzene	106	7.971	7.971	0.000	97	123276	20.0	22.9	
94 m-Xylene & p-Xylene	106	8.157	8.157	0.000	0	143601	20.0	21.4	
95 o-Xylene	106	8.743	8.743	0.000	95	139914	20.0	21.0	
96 Styrene	104	8.772	8.772	0.000	97	241326	20.0	20.6	
97 n-Butyl acrylate	73	8.829	8.829	0.000	98	52188	20.0	18.7	
98 Bromoform	173	8.993	8.993	0.000	96	69476	20.0	21.6	
99 Amyl acetate (mixed isomer	43	9.215	9.222	-0.007	92	112465	20.0	18.1	
100 Isopropylbenzene	105	9.351	9.351	0.000	95	361417	20.0	22.3	
\$ 101 4-Bromofluorobenzene	174	9.551	9.551	0.000	95	295380	50.0	59.4	
102 Bromobenzene	156	9.737	9.744	-0.007	85	114092	20.0	21.2	
103 1,1,2,2-Tetrachloroethane	83	9.852	9.851	0.001	96	95915	20.0	19.3	
104 1,2,3-Trichloropropane	110	9.873	9.873	0.000	96	32190	20.0	19.1	
105 trans-1,4-Dichloro-2-buten	53	9.952	9.959	-0.007	93	23270	20.0	15.6	
106 N-Propylbenzene	91	10.016	10.016	0.000	100	386659	20.0	20.6	
107 2-Chlorotoluene	91	10.095	10.095	0.000	96	250093	20.0	19.4	
108 4-Ethyltoluene	105	10.216	10.216	0.000	99	335801	20.0	19.9	
109 4-Chlorotoluene	91	10.281	10.280	0.001	94	244055	20.0	18.7	
110 1,3,5-Trimethylbenzene	105	10.338	10.338	0.000	94	269009	20.0	20.0	
111 Butyl Methacrylate	87	10.617	10.617	0.000	88	89976	20.0	17.5	
112 tert-Butylbenzene	119	10.853	10.853	0.001	96	260585	20.0	20.4	
113 1,2,4-Trimethylbenzene	105	10.938	10.938	0.000	96	256615	20.0	19.7	
114 sec-Butylbenzene	105	11.210	11.217	-0.007	99	352524	20.0	20.7	
115 1,3-Dichlorobenzene	146	11.303	11.303	0.000	97	200535	20.0	20.2	
* 116 1,4-Dichlorobenzene-d4	152	11.410	11.410	0.000	93	354315	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.439	11.446	-0.007	96	205111	20.0	19.8	
118 4-Isopropyltoluene	119	11.460	11.460	0.000	97	296855	20.0	20.3	
119 1,2,3-Trimethylbenzene	105	11.560	11.560	0.000	97	270803	20.0	20.4	
120 Benzyl chloride	126	11.653	11.653	0.000	100	40371	20.0	17.8	
121 2,3-Dihydroindene	117	11.789	11.789	0.000	94	337147	20.0	20.7	
122 1,2-Dichlorobenzene	146	11.918	11.918	0.000	98	197507	20.0	20.5	
123 p-Diethylbenzene	119	11.968	11.968	0.000	95	154216	20.0	20.9	
124 n-Butylbenzene	92	11.997	11.997	0.000	96	117706	20.0	19.8	
125 1,2-Dibromo-3-Chloropropan	75	12.797	12.797	0.000	89	19418	20.0	17.0	
126 1,2,4,5-Tetramethylbenzene	119	12.819	12.819	0.000	98	208368	20.0	24.7	
127 1,3,5-Trichlorobenzene	180	13.012	13.012	0.000	97	121045	20.0	23.4	
128 1,2,4-Trichlorobenzene	180	13.577	13.577	0.000	93	108591	20.0	24.0	
129 Hexachlorobutadiene	225	13.748	13.748	0.000	95	62142	20.0	24.4	
130 Naphthalene	128	13.770	13.770	0.000	99	227377	20.0	23.6	
131 1,2,3-Trichlorobenzene	180	13.970	13.977	-0.007	96	101073	20.0	24.0	
S 132 1,2-Dichloroethene, Total	100				0		40.0	49.2	
S 133 Xylenes, Total	100				0		40.0	42.5	
S 134 Total BTEX	1				0		100.0	108.0	

Reagents:

GASES Li_00262	Amount Added: 20.00	Units: uL	
8260MIX1COMB_00080	Amount Added: 20.00	Units: uL	
ACROLEIN W_00077	Amount Added: 4.00	Units: uL	
8260SURR250_00178	Amount Added: 1.00	Units: uL	
8260ISNEW_00122	Amount Added: 1.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS12\\20180601-73036.b\\O396477.D

Injection Date: 01-Jun-2018 20:19:30

Instrument ID: CVOAMS12

Operator ID:

Lims ID: 460-157038-B-1 MSD

Worklist Smp#: 16

Client ID: NL-MW-3-20180525

Purge Vol: 5.000 mL

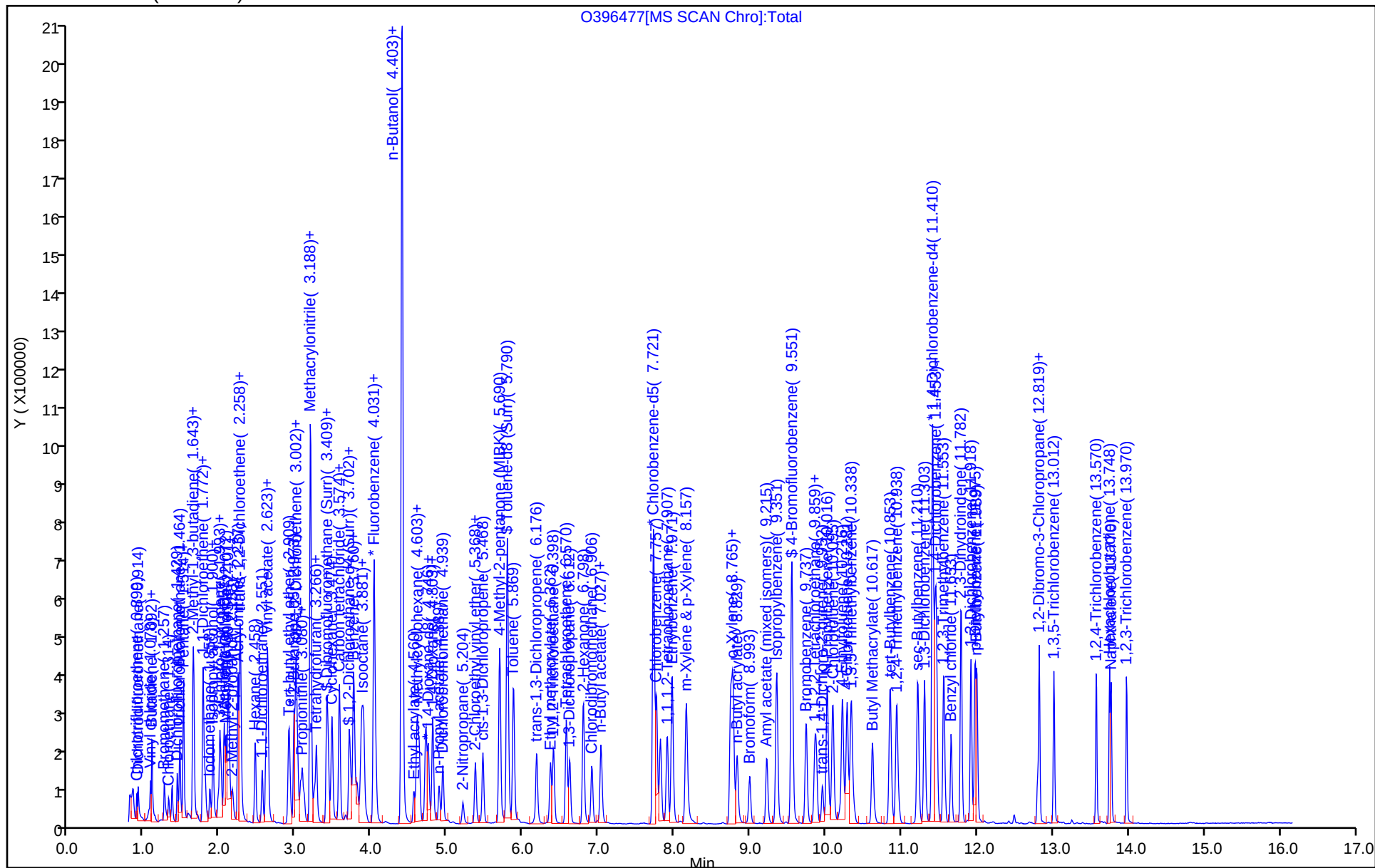
Dil. Factor: 5.0000

ALS Bottle#: 15

Method: 8260W_12

Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: CVOAMS12 Start Date: 05/24/2018 12:58Analysis Batch Number: 522184 End Date: 05/24/2018 18:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-522184/1		05/24/2018 12:58	1	O39391.D	DB-624 0.18 (mm)
STD7 460-522184/3 IC		05/24/2018 13:51	1	O39393.D	DB-624 0.18 (mm)
STD1 460-522184/4 IC		05/24/2018 14:19	1	O39394.D	DB-624 0.18 (mm)
STD5 460-522184/5 IC		05/24/2018 14:48	1	O39395.D	DB-624 0.18 (mm)
STD20 460-522184/6 ICIS		05/24/2018 15:17	1	O39396.D	DB-624 0.18 (mm)
STD50 460-522184/7 IC		05/24/2018 15:46	1	O39397.D	DB-624 0.18 (mm)
STD200 460-522184/8 IC		05/24/2018 16:14	1	O39398.D	DB-624 0.18 (mm)
STD500 460-522184/9 IC		05/24/2018 16:43	1	O39399.D	DB-624 0.18 (mm)
ICV 460-522184/13		05/24/2018 18:38	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: CVOAMS12 Start Date: 05/31/2018 23:31Analysis Batch Number: 524141 End Date: 06/01/2018 08:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-524141/1		05/31/2018 23:31	1	O396437.D	DB-624 0.18 (mm)
CCVIS 460-524141/3		06/01/2018 00:22	1	O396439.D	DB-624 0.18 (mm)
LCS 460-524141/4		06/01/2018 00:49	1	O396440.D	DB-624 0.18 (mm)
MB 460-524141/7		06/01/2018 02:13	1	O396443.D	DB-624 0.18 (mm)
ZZZZZ		06/01/2018 02:49	1		DB-624 0.18 (mm)
460-157038-4		06/01/2018 03:16	1	O396445.D	DB-624 0.18 (mm)
ZZZZZ		06/01/2018 03:44	1		DB-624 0.18 (mm)
460-157038-3		06/01/2018 04:12	1	O396447.D	DB-624 0.18 (mm)
ZZZZZ		06/01/2018 05:07	1		DB-624 0.18 (mm)
ZZZZZ		06/01/2018 06:30	1		DB-624 0.18 (mm)
ZZZZZ		06/01/2018 06:58	1		DB-624 0.18 (mm)
ZZZZZ		06/01/2018 07:25	1		DB-624 0.18 (mm)
ZZZZZ		06/01/2018 07:53	1		DB-624 0.18 (mm)
ZZZZZ		06/01/2018 08:21	1		DB-624 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: CVOAMS12 Start Date: 06/01/2018 11:17Analysis Batch Number: 524327 End Date: 06/01/2018 22:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-524327/1		06/01/2018 11:17	1	O396462.D	DB-624 0.18 (mm)
CCVIS 460-524327/2		06/01/2018 11:46	1	O396463.D	DB-624 0.18 (mm)
LCS 460-524327/3		06/01/2018 12:14	1	O396464.D	DB-624 0.18 (mm)
ZZZZZ		06/01/2018 12:14	50		DB-624 0.18 (mm)
LCSD 460-524327/6		06/01/2018 13:37	1	O396467.D	DB-624 0.18 (mm)
ZZZZZ		06/01/2018 13:37	50		DB-624 0.18 (mm)
MB 460-524327/12		06/01/2018 18:20	1	O396473.D	DB-624 0.18 (mm)
ZZZZZ		06/01/2018 18:20	50		DB-624 0.18 (mm)
460-157038-1		06/01/2018 18:56	5	O396474.D	DB-624 0.18 (mm)
460-157038-2		06/01/2018 19:24	5	O396475.D	DB-624 0.18 (mm)
460-157038-1 MS		06/01/2018 19:52	5	O396476.D	DB-624 0.18 (mm)
460-157038-1 MSD		06/01/2018 20:19	5	O396477.D	DB-624 0.18 (mm)
ZZZZZ		06/01/2018 21:42	50		DB-624 0.18 (mm)
ZZZZZ		06/01/2018 22:38	100		DB-624 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 524141 Batch Start Date: 05/31/18 23:31 Batch Analyst: Parekh, Vyomesh BBatch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260ISNEW 00122	8260MIX1COMB 00080	8260SURR250 00178	ACROLEIN W 00077
BFB 460-524141/1		8260C		5 mL	5 mL				
CCVIS 460-524141/3		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCS 460-524141/4		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
MB 460-524141/7		8260C		5 mL	5 mL	1 uL		1 uL	
460-157038-A-4	NL-TB-20180525	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-157038-A-3	NL-FB-20180525	8260C	T	5 mL	5 mL	1 uL		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00017	GASES Li 00262				
BFB 460-524141/1		8260C		1 uL					
CCVIS 460-524141/3		8260C			20 uL				
LCS 460-524141/4		8260C			20 uL				
MB 460-524141/7		8260C							
460-157038-A-4	NL-TB-20180525	8260C	T						
460-157038-A-3	NL-FB-20180525	8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 524327 Batch Start Date: 06/01/18 11:17 Batch Analyst: Starzec, MargaretBatch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260ISNEW 00122	8260MIX1COMB 00080	8260SURRE250 00178	ACROLEIN W 00077
BFB 460-524327/1		8260C		5 mL	5 mL				
CCVIS 460-524327/2		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCS 460-524327/3		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCSD 460-524327/6		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
MB 460-524327/12		8260C		5 mL	5 mL	1 uL		1 uL	
460-157038-B-1	NL-MW-3-20180525	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-157038-B-2	NL-MW-DUP-20180525	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-157038-B-1 MS	NL-MW-3-20180525	8260C	T	5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
460-157038-B-1 MSD	NL-MW-3-20180525	8260C	T	5 mL	5 mL	1 uL	20 uL	1 uL	4 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00017	GASES Li 00262				
BFB 460-524327/1		8260C		1 uL					
CCVIS 460-524327/2		8260C			20 uL				
LCS 460-524327/3		8260C			20 uL				
LCSD 460-524327/6		8260C			20 uL				
MB 460-524327/12		8260C							
460-157038-B-1	NL-MW-3-20180525	8260C	T						
460-157038-B-2	NL-MW-DUP-20180525	8260C	T						
460-157038-B-1 MS	NL-MW-3-20180525	8260C	T		20 uL				
460-157038-B-1 MSD	NL-MW-3-20180525	8260C	T		20 uL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260C

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 524327 Batch Start Date: 06/01/18 11:17 Batch Analyst: Starzec, MargaretBatch Method: 8260C Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 21_11_221.D
Lab ID: LCS 480-417210/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methane	7.77	7.97	103	85-120	

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 21_11_224.D
Lab ID: 460-157038-1 MS Client ID: NL-MW-3-20180525 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methane	85.5	360	599	280	38-150	*

Column to be used to flag recovery and RPD values

FORM III
GC VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 21_11_225.D
Lab ID: 460-157038-1 MSD Client ID: NL-MW-3-20180525 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	85.5	437	91	31	50	38-150	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
 SDG No.: _____
 Lab Sample ID: MB 480-417210/6
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_11_220.D Lab File ID: (2) _____
 Date Analyzed: (1) 05/31/2018 10:49 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) Alumina ID: 0.53 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-417210/7	05/31/2018 11:06	
NL-MW-3-20180525	460-157038-1	05/31/2018 13:36	
NL-MW-3-20180525 MS	460-157038-1 MS	05/31/2018 13:53	
NL-MW-3-20180525 MSD	460-157038-1 MSD	05/31/2018 14:11	
NL-FB-20180525	460-157038-3	05/31/2018 14:46	
NL-MW-DUP-20180525	460-157038-2	05/31/2018 17:58	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-3-20180525 Lab Sample ID: 460-157038-1
Matrix: Water Lab File ID: 21_11_223.D
Analysis Method: RSK-175 Date Collected: 05/25/2018 11:30
Sample wt/vol: 17(mL) Date Analyzed: 05/31/2018 13:36
Soil Aliquot Vol: _____ Dilution Factor: 11
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	360		44	11

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_223.D
 Lims ID: 460-157038-E-1
 Client ID: NL-MW-3-20180525
 Sample Type: Client
 Inject. Date: 31-May-2018 13:36:01 ALS Bottle#: 0 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 11.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 01-Jun-2018 09:19:35 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK002

First Level Reviewer: kiblerk

Date: 31-May-2018 13:50:24

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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1 Methane

1	1.393	1.393	0.000	50941	32.4
2	1.170	1.173	-0.003	65221	32.7

2 Ethane

1	1.757	1.757	0.000	712	-4.69
2	1.543	1.543	0.000	915	-5.67

Report Date: 01-Jun-2018 09:19:39

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_223.D

Injection Date: 31-May-2018 13:36:01

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 460-157038-E-1

Lab Sample ID: 480-157038-1

Worklist Smp#: 23

Client ID: NL-MW-3-20180525

Purge Vol: 5.000 mL

Dil. Factor: 11.0000

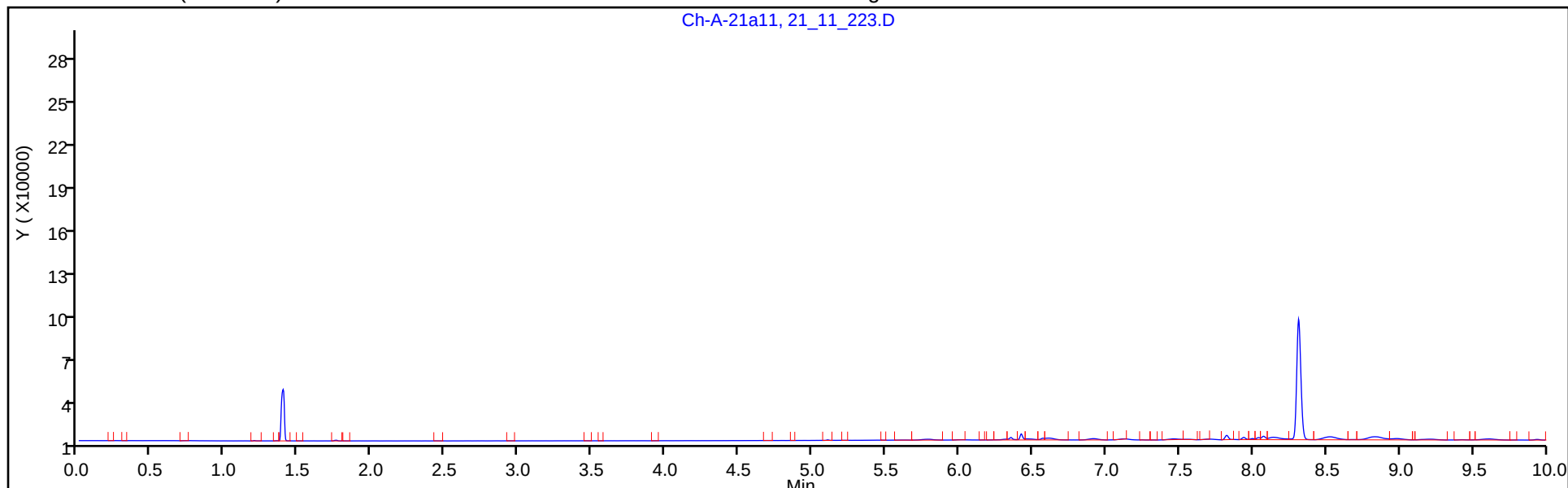
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

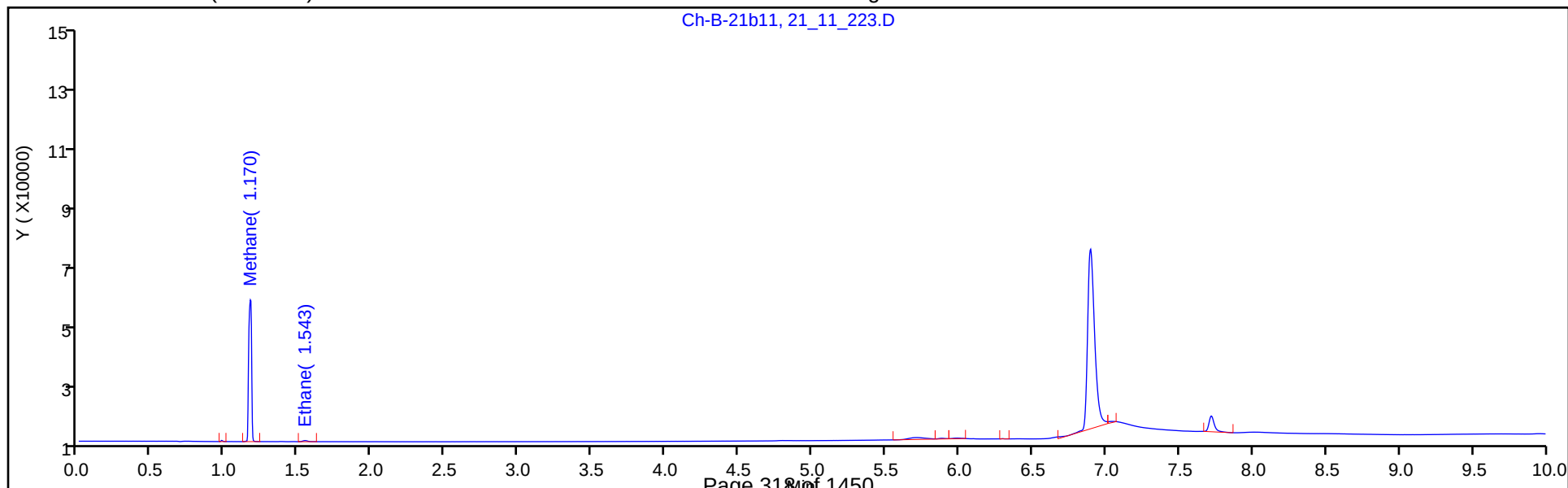
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-DUP-20180525 Lab Sample ID: 460-157038-2
Matrix: Water Lab File ID: 21_11_238.D
Analysis Method: RSK-175 Date Collected: 05/25/2018 11:50
Sample wt/vol: 17(mL) Date Analyzed: 05/31/2018 17:58
Soil Aliquot Vol: _____ Dilution Factor: 11
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	450		44	11

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_238.D
Lims ID: 460-157038-E-2
Client ID: NL-MW-DUP-20180525
Sample Type: Client
Inject. Date: 31-May-2018 17:58:43 ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 11.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-21
Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\RSK-175.m
Limit Group: GC - RSK175 ICAL
Last Update: 01-Jun-2018 09:19:35 Calib Date: 12-Sep-2017 10:54:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: XAWRK002

First Level Reviewer: kiblcrk

Date: 01-Jun-2018 08:17:02

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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1 Methane

1	1.393	1.393	0.000	63193	41.0	
2	1.173	1.173	0.000	80532	41.4	

Report Date: 01-Jun-2018 09:19:52

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_238.D

Injection Date: 31-May-2018 17:58:43

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 460-157038-E-2

Lab Sample ID: 480-157038-2

Worklist Smp#: 24

Client ID: NL-MW-DUP-20180525

Purge Vol: 5.000 mL

Dil. Factor: 11.0000

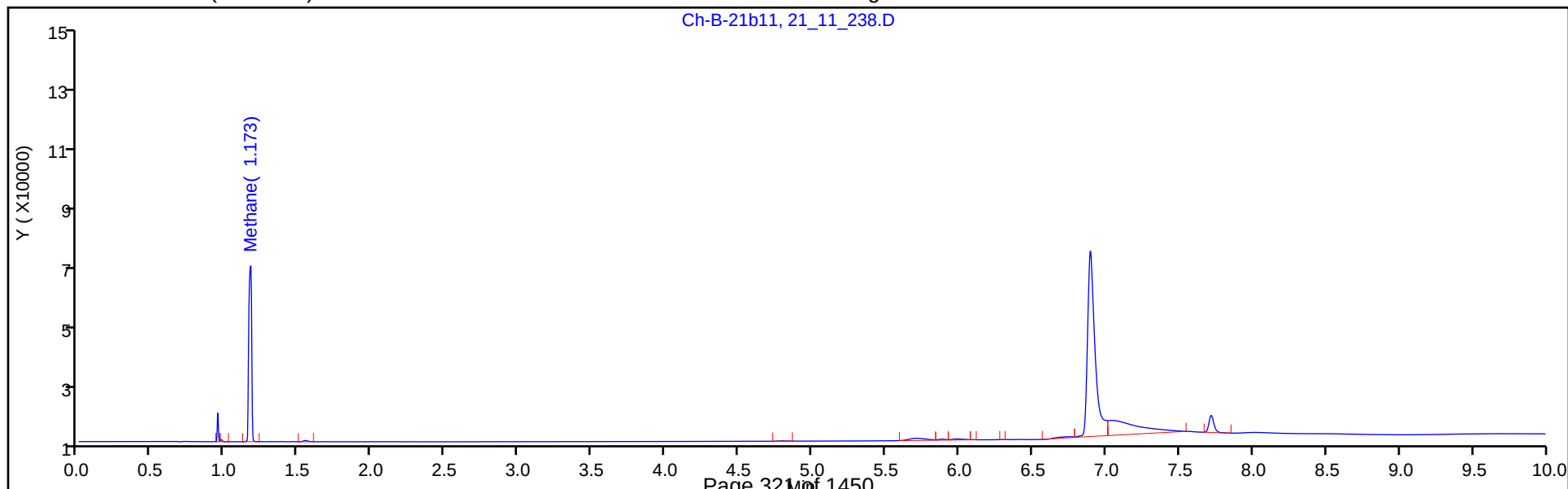
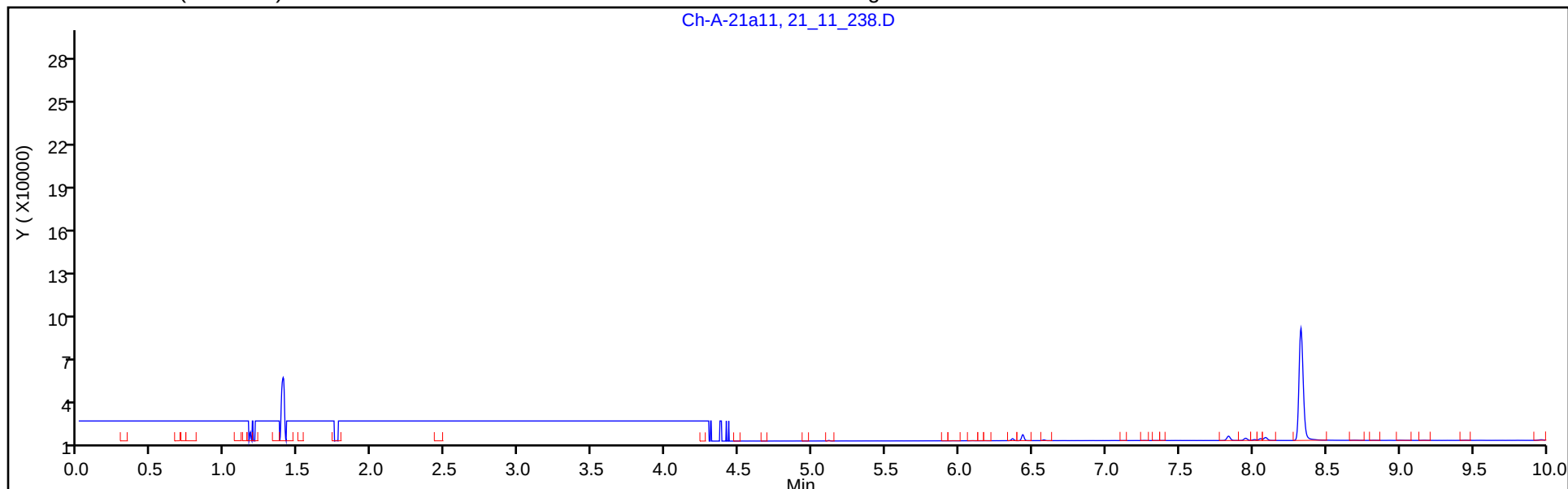
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-FB-20180525 Lab Sample ID: 460-157038-3
Matrix: Water Lab File ID: 21_11_227.D
Analysis Method: RSK-175 Date Collected: 05/25/2018 12:00
Sample wt/vol: 17(mL) Date Analyzed: 05/31/2018 14:46
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	1.0	U	4.0	1.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_227.D
Lims ID: 460-157038-E-3
Client ID: NL-FB-20180525
Sample Type: Client
Inject. Date: 31-May-2018 14:46:13 ALS Bottle#: 0 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Operator ID: BufTCHROM Instrument ID: HP5890-21
Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\RSK-175.m
Limit Group: GC - RSK175 ICAL
Last Update: 01-Jun-2018 09:19:35 Calib Date: 12-Sep-2017 10:54:49
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
Process Host: XAWRK002

First Level Reviewer: kiblcrk

Date: 01-Jun-2018 08:10:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.393	0.004	731	-2.91	
2	1.173	1.173	0.000	1372	-3.56	

Report Date: 01-Jun-2018 09:19:43

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_227.D

Injection Date: 31-May-2018 14:46:13

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 460-157038-E-3

Lab Sample ID: 480-157038-3

Worklist Smp#: 12

Client ID: NL-FB-20180525

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

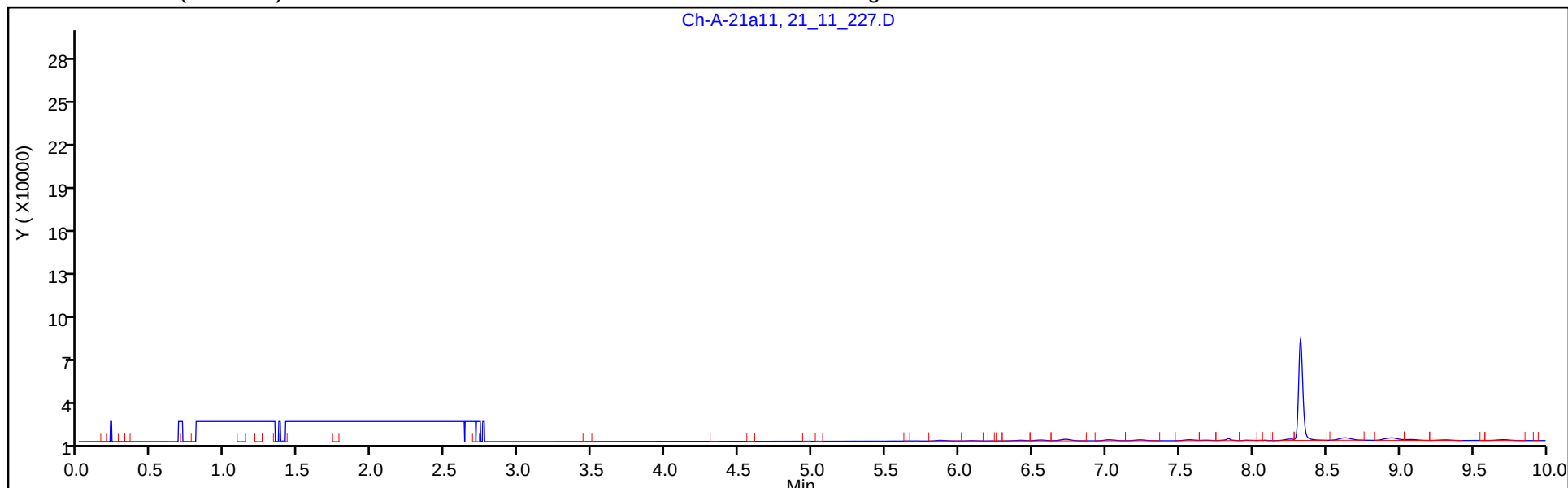
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

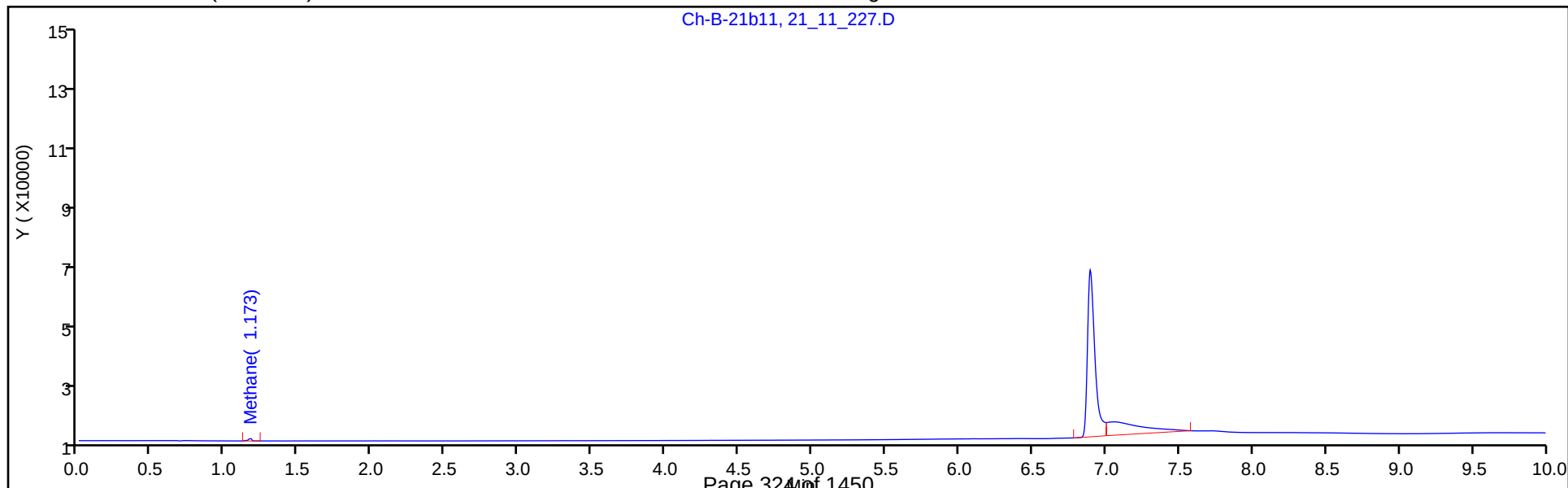
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1 Analy Batch No.: 376268
SDG No.: _____
Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Methane	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397	1.397		1.347 - 1.447	1.397
Ethane	1.757	1.757	1.757	1.757	1.757	1.757	1.757	1.757	+++++		1.707 - 1.807	1.757
Ethene	2.437	2.440	2.440	2.440	2.440	2.437	2.437	2.433	+++++		2.390 - 2.490	2.438
Propane	3.273	3.273	3.273	3.273	3.273	3.270	+++++	+++++	+++++		3.223 - 3.323	3.273
Butane	5.097	5.103	5.100	5.100	5.097	5.090	+++++	+++++	+++++		5.050 - 5.150	5.098

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	2509.6 1620.2 1375.8	1912.2 1479.9	1787.1 1494.3	1607.1 1419.8	Lin1	4870.65681	1422.88124							0.9980		0.9900
Ethane	2503.3 1699.6 ++++	1938.1 1545.0	1860.9 1571.7	1673.5 1489.9	Lin1	7880.21786	1527.73962							0.9980		0.9900
Ethene	2263.5 1555.5 ++++	1783.8 1413.8	1685.7 1440.6	1534.0 1356.1	Lin1	6655.73541	1396.08756							0.9980		0.9900
Propane	2615.9 1778.6 ++++	2016.0 1601.1	1946.9 ++++	1736.3 ++++	Lin1	10854.7810	1631.62753							0.9970		0.9900
Butane	2672.7 2108.4 ++++	2046.0 1816.6	1984.7 ++++	1772.4 ++++	Lin1	9080.80408	1863.28147							0.9930		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1 Analy Batch No.: 376268

SDG No.: _____

Instrument ID: HP5890-21 GC Column: Alumina ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2017 08:34 Calibration End Date: 09/12/2017 10:54 Calibration ID: 31454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-376268/2	21_140.D
Level 2	STD 480-376268/3	21_141.D
Level 3	STD 480-376268/4	21_142.D
Level 4	STD 480-376268/5	21_143.D
Level 5	STD 480-376268/6	21_144.D
Level 6	STD 480-376268/7	21_145.D
Level 7	STD 480-376268/8	21_146.D
Level 8	STD 480-376268/9	21_147.D
Level 9	STD 480-376268/10	21_148.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Methane	Lin1	9749 229956	14857 348303	34711 441234	62430 534455	125878	3.88 155	7.77 233	19.4 311	38.8 388	77.7
Ethane	Lin1	18234 450167	28234 686896	67776 868187	121900 +++++	247603	7.28 291	14.6 437	36.4 583	72.8 +++++	146
Ethene	Lin1	15388 384441	24254 587597	57298 737510	104285 +++++	211496	6.80 272	13.6 408	34.0 544	68.0 +++++	136
Propane	Lin1	27946 684190	43073 +++++	103995 +++++	185489 +++++	380021	10.7 427	21.4 +++++	53.4 +++++	107 +++++	214
Butane	Lin1	37264 1013085	57053 +++++	138358 +++++	247119 +++++	587931	13.9 558	27.9 +++++	69.7 +++++	139 +++++	279

Curve Type Legend:

Lin1 = Linear 1/conc

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D
 Lims ID: STD 10
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 12-Sep-2017 08:34:49 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:30 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert

Date: 12-Sep-2017 11:53:30

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	9749	3.88	3.43	
2	1.173	1.173	0.000	13247	3.88	3.18	

2 Ethane

1	1.757	1.757	0.000	18234	7.28	6.78	
2	1.560	1.560	0.000	24158	7.28	6.39	

3 Ethylene

1	2.437	2.440	-0.003	15388	6.80	6.25	
2	1.477	1.477	0.000	20427	6.80	5.88	

4 Propane

1	3.273	3.273	0.000	27946	10.7	10.5	
2	3.293	3.297	-0.004	38885	10.7	11.2	

5 Butane

1	5.097	5.100	-0.003	37264	13.9	15.1	
2	4.837	4.833	0.004	54550	13.9	14.6	

Reagents:

_RSK_STK_00022

Amount Added: 10.00

Units: uL

Report Date: 12-Sep-2017 11:53:31

Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_140.D

Injection Date: 12-Sep-2017 08:34:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 10

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

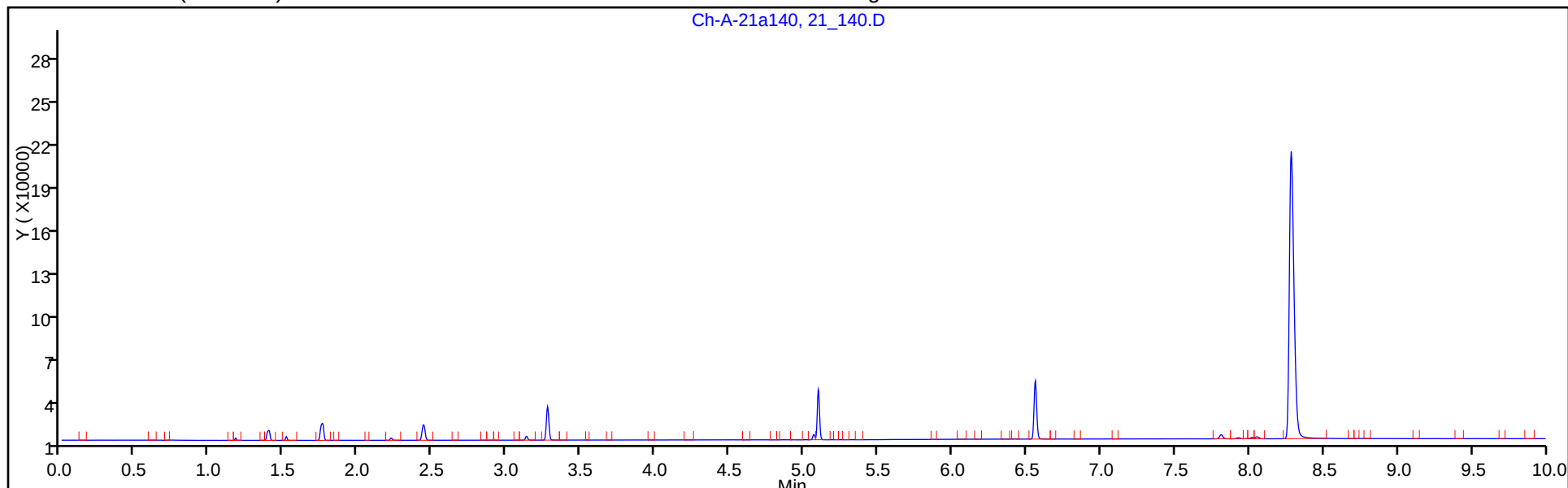
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

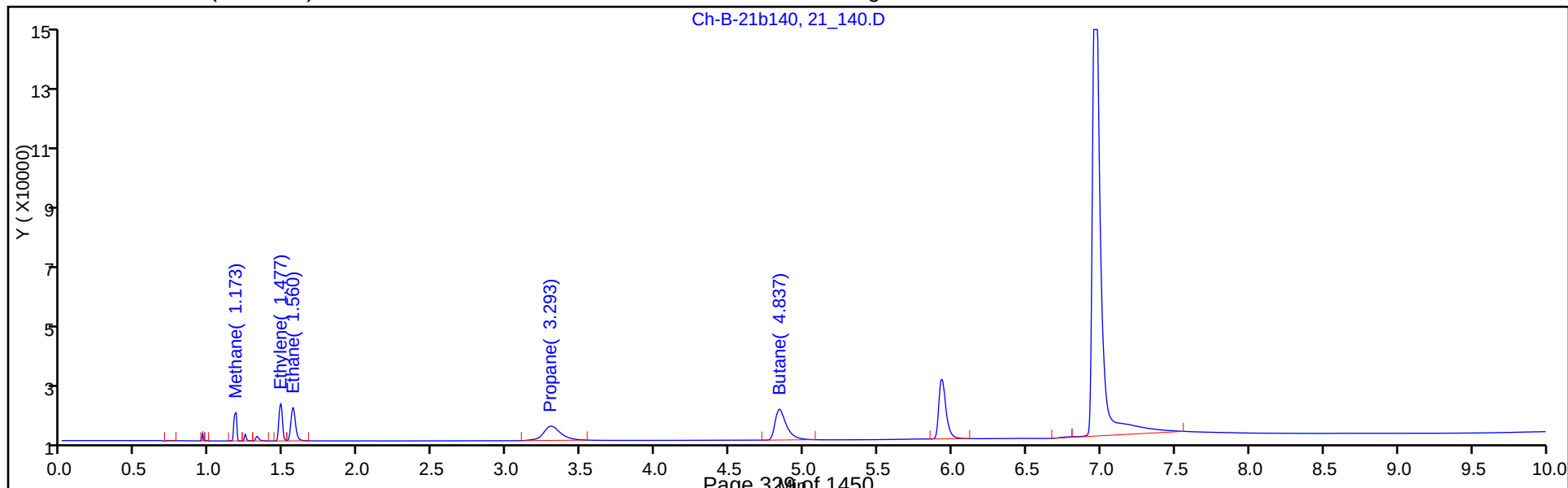
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D
 Lims ID: STD 20
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 12-Sep-2017 08:52:19 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:31 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert

Date: 12-Sep-2017 09:23:41

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	14857	7.77	7.02	
2	1.173	1.173	0.000	19961	7.77	6.99	

2 Ethane

1	1.757	1.757	0.000	28234	14.6	13.3	
2	1.560	1.560	0.000	37542	14.6	13.3	

3 Ethylene

1	2.440	2.440	0.000	24254	13.6	12.6	
2	1.477	1.477	0.000	32041	13.6	12.6	

4 Propane

1	3.273	3.273	0.000	43073	21.4	19.7	
2	3.297	3.297	0.000	57170	21.4	18.7	

5 Butane

1	5.103	5.100	0.003	57053	27.9	25.7	
2	4.833	4.833	0.000	76605	27.9	23.9	

Reagents:

_RSK_STK_00022

Amount Added: 20.00

Units: uL

Report Date: 12-Sep-2017 11:53:32

Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_141.D

Injection Date: 12-Sep-2017 08:52:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 20

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

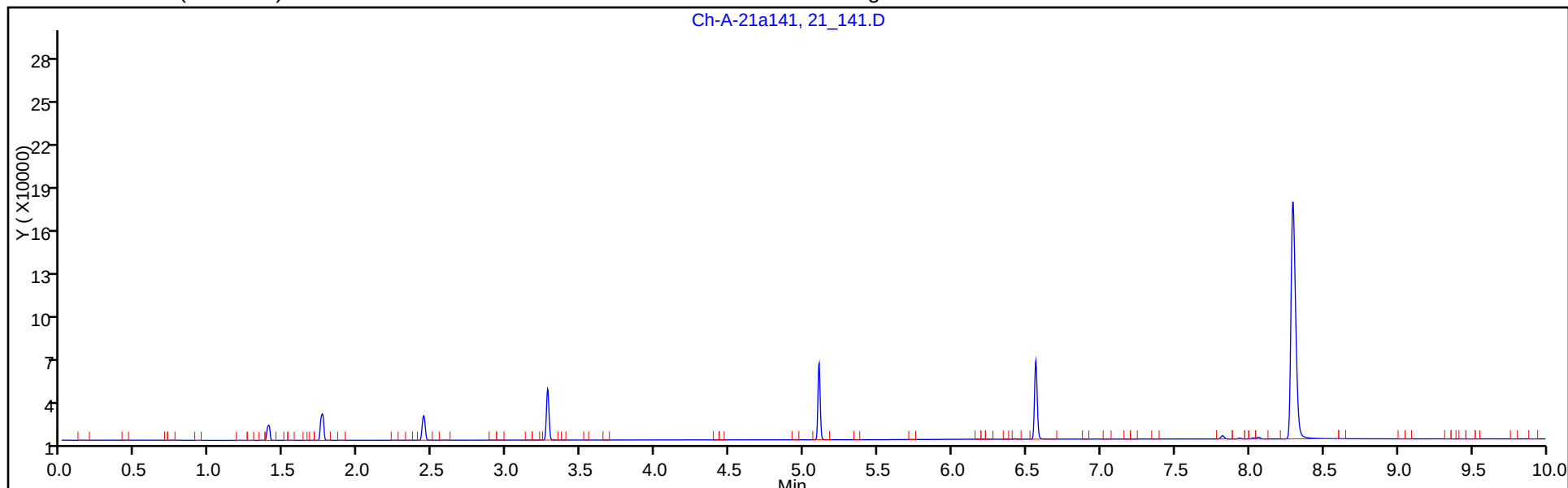
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

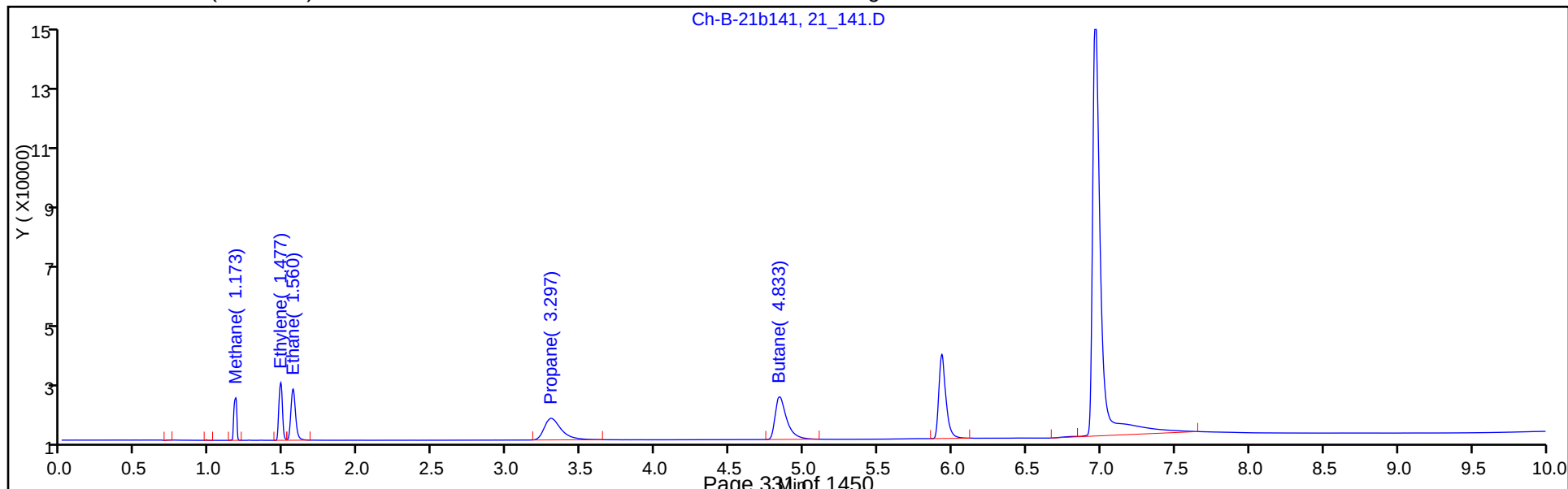
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D
 Lims ID: STD 50
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 12-Sep-2017 09:09:49 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:32 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert

Date: 12-Sep-2017 09:41:17

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	34711	19.4	21.0	
2	1.173	1.173	0.000	45559	19.4	21.5	

2 Ethane

1	1.757	1.757	0.000	67776	36.4	39.2	
2	1.560	1.560	0.000	89233	36.4	40.1	

3 Ethylene

1	2.440	2.440	0.000	57298	34.0	36.3	
2	1.477	1.477	0.000	74499	34.0	37.3	

4 Propane

1	3.273	3.273	0.000	103995	53.4	57.1	
2	3.297	3.297	0.000	144010	53.4	54.5	

5 Butane

1	5.100	5.100	0.000	138358	69.7	69.4	
2	4.833	4.833	0.000	190988	69.7	72.0	

Reagents:

_RSK_STK_00022

Amount Added: 50.00

Units: uL

Report Date: 12-Sep-2017 11:53:33

Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_142.D

Injection Date: 12-Sep-2017 09:09:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 50

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

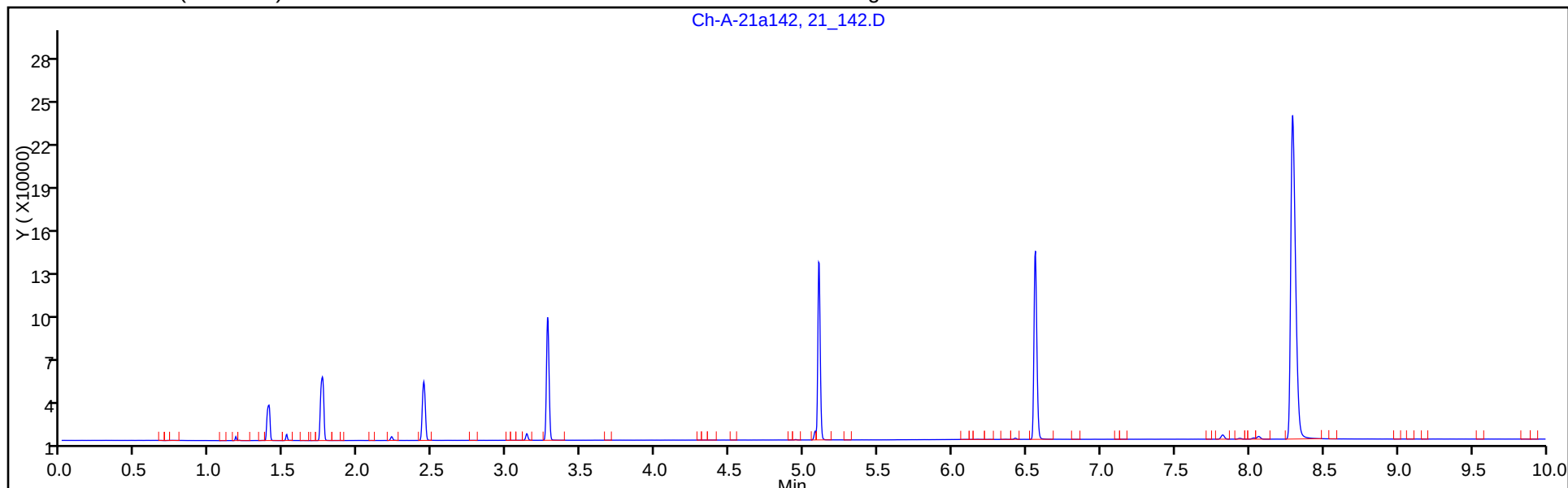
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

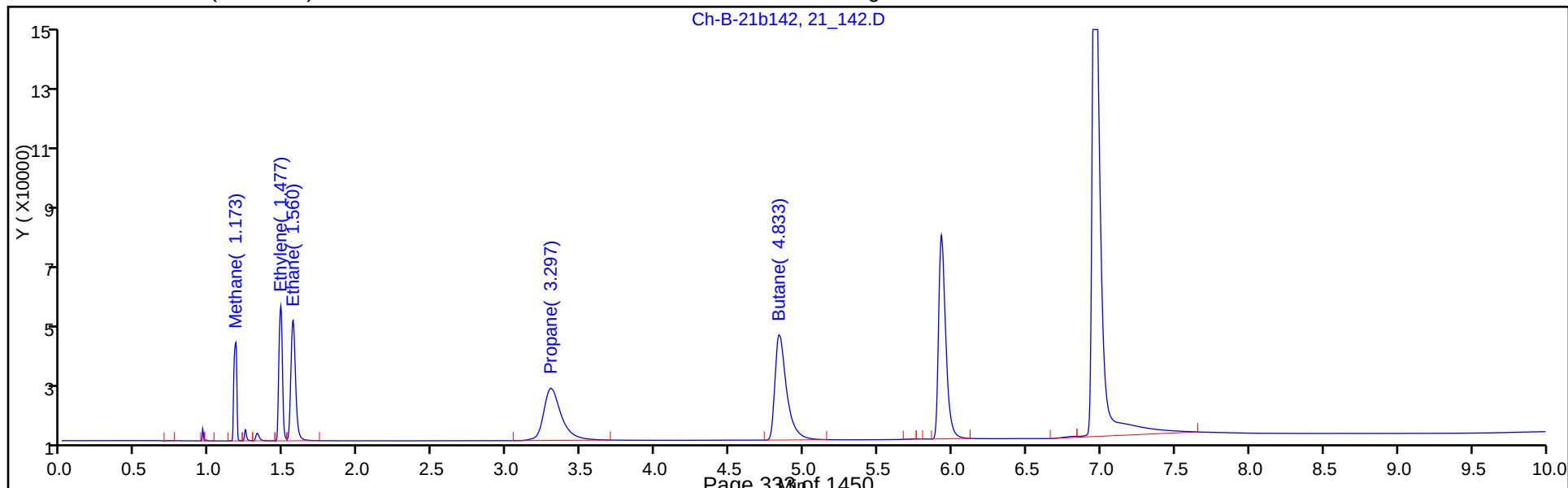
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D
 Lims ID: STD 100
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 12-Sep-2017 09:27:19 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:33 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert

Date: 12-Sep-2017 10:31:13

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	62430	38.8	40.5	
2	1.173	1.173	0.000	80762	38.8	41.5	

2 Ethane

1	1.757	1.757	0.000	121900	72.8	74.6	
2	1.560	1.560	0.000	159292	72.8	76.4	

3 Ethylene

1	2.440	2.440	0.000	104285	68.0	69.9	
2	1.477	1.477	0.000	133371	68.0	71.4	

4 Propane

1	3.273	3.273	0.000	185489	106.8	107.0	
2	3.293	3.297	-0.004	274442	106.8	108.1	

5 Butane

1	5.100	5.100	0.000	247119	139.4	127.8	
2	4.830	4.833	-0.003	355201	139.4	141.0	

Reagents:

_RSK_STK_00022

Amount Added: 100.00

Units: uL

Report Date: 12-Sep-2017 11:53:34

Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_143.D

Injection Date: 12-Sep-2017 09:27:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 100

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

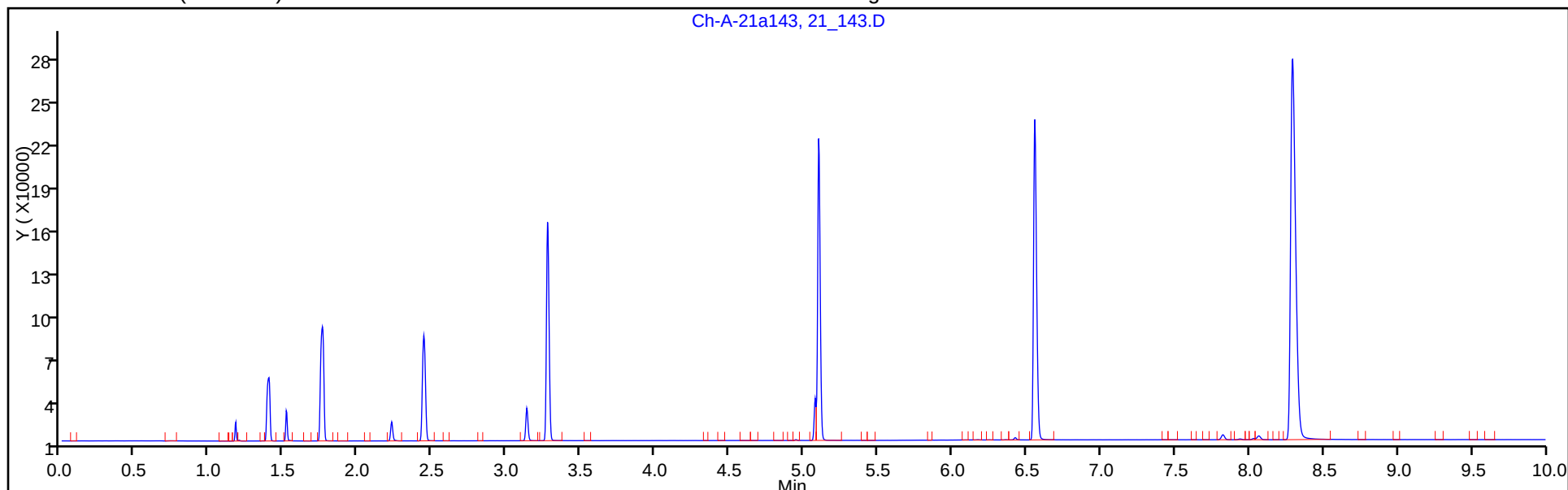
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

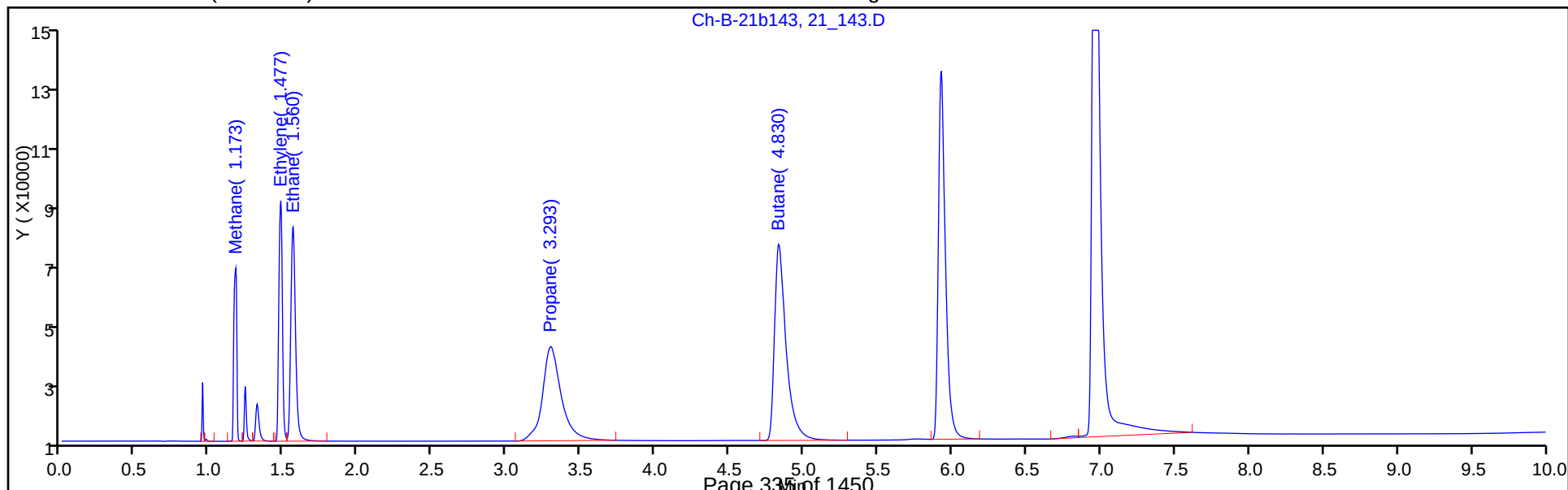
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D
 Lims ID: STD 200
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 12-Sep-2017 09:44:49 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:34 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert

Date: 12-Sep-2017 10:31:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	125878	77.7	85.0	
2	1.173	1.173	0.000	159664	77.7	86.3	

2 Ethane

1	1.757	1.757	0.000	247603	145.7	156.9	
2	1.557	1.560	-0.003	317370	145.7	158.4	

3 Ethylene

1	2.440	2.440	0.000	211496	136.0	146.7	
2	1.477	1.477	0.000	265422	136.0	148.1	

4 Propane

1	3.273	3.273	0.000	380021	213.7	226.3	
2	3.290	3.297	-0.007	576696	213.7	232.5	

5 Butane

1	5.097	5.100	-0.003	587931	278.8	310.7	
2	4.830	4.833	-0.003	749391	278.8	306.6	

Reagents:

_RSK_STK_00022

Amount Added: 200.00

Units: uL

Report Date: 12-Sep-2017 11:53:35

Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_144.D

Injection Date: 12-Sep-2017 09:44:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 200

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

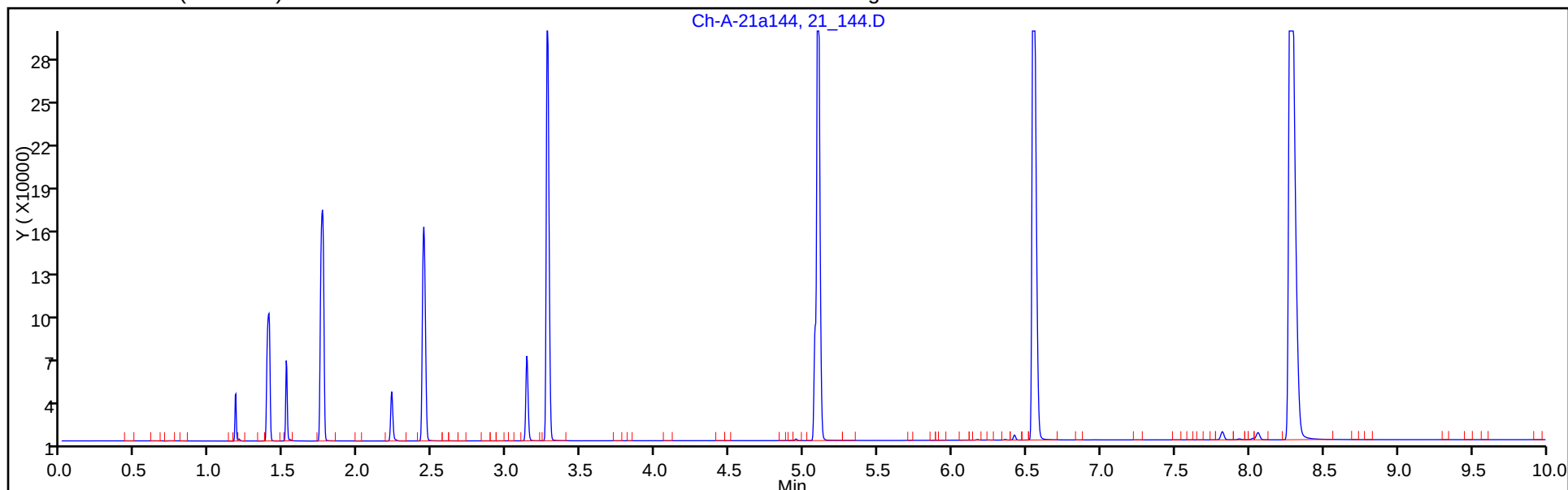
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

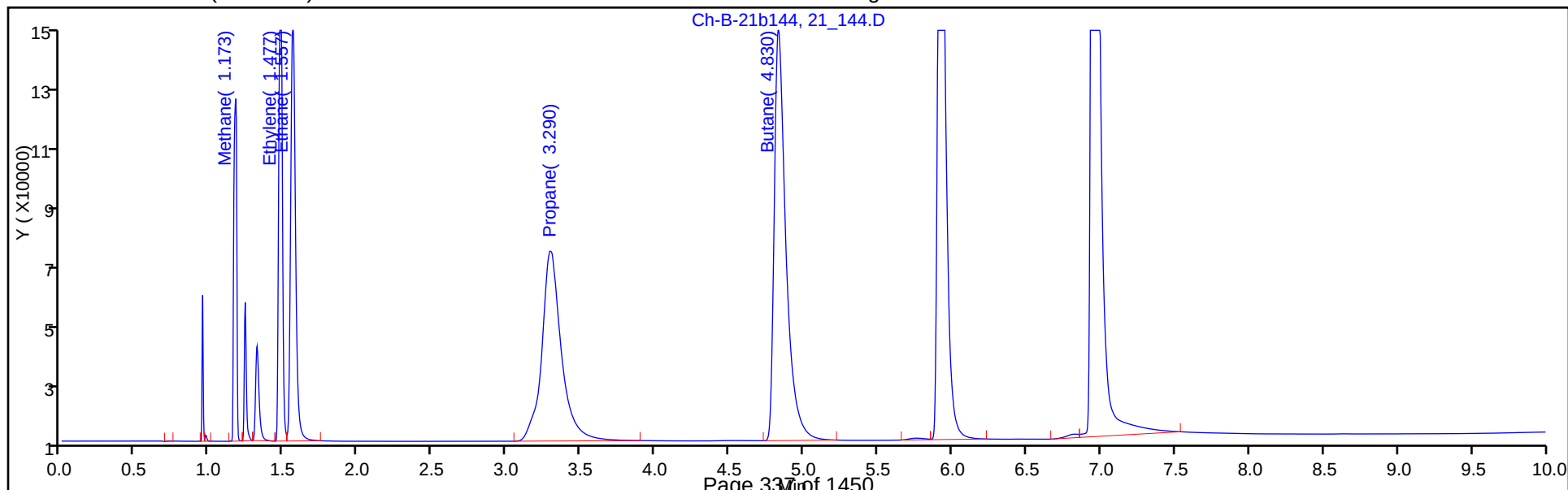
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D
 Lims ID: STD 400
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 12-Sep-2017 10:02:19 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:36 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert

Date: 12-Sep-2017 10:32:14

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	229956	155.4	158.2	
2	1.173	1.173	0.000	287729	155.4	159.0	

2 Ethane

1	1.757	1.757	0.000	450167	291.4	289.5	
2	1.557	1.560	-0.003	571993	291.4	290.4	

3 Ethylene

1	2.437	2.440	-0.003	384441	271.9	270.6	
2	1.477	1.477	0.000	477395	271.9	271.2	

4 Propane

1	3.270	3.273	-0.003	684190	427.3	412.7	
2	3.293	3.297	-0.004	1003769	427.3	408.2	

5 Butane

1	5.090	5.100	-0.010	1013085	557.7	538.8	
2	4.823	4.833	-0.010	1280046	557.7	529.5	

Reagents:

_RSK_STK_00022

Amount Added: 400.00

Units: uL

Report Date: 12-Sep-2017 11:53:36

Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_145.D

Injection Date: 12-Sep-2017 10:02:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 400

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

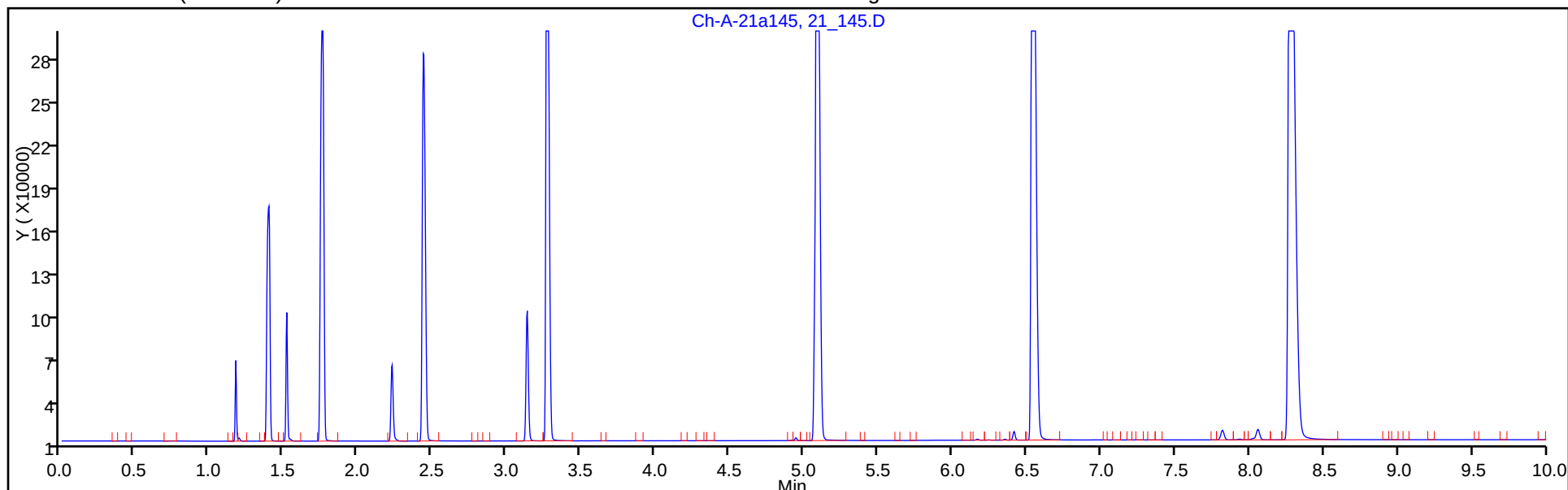
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

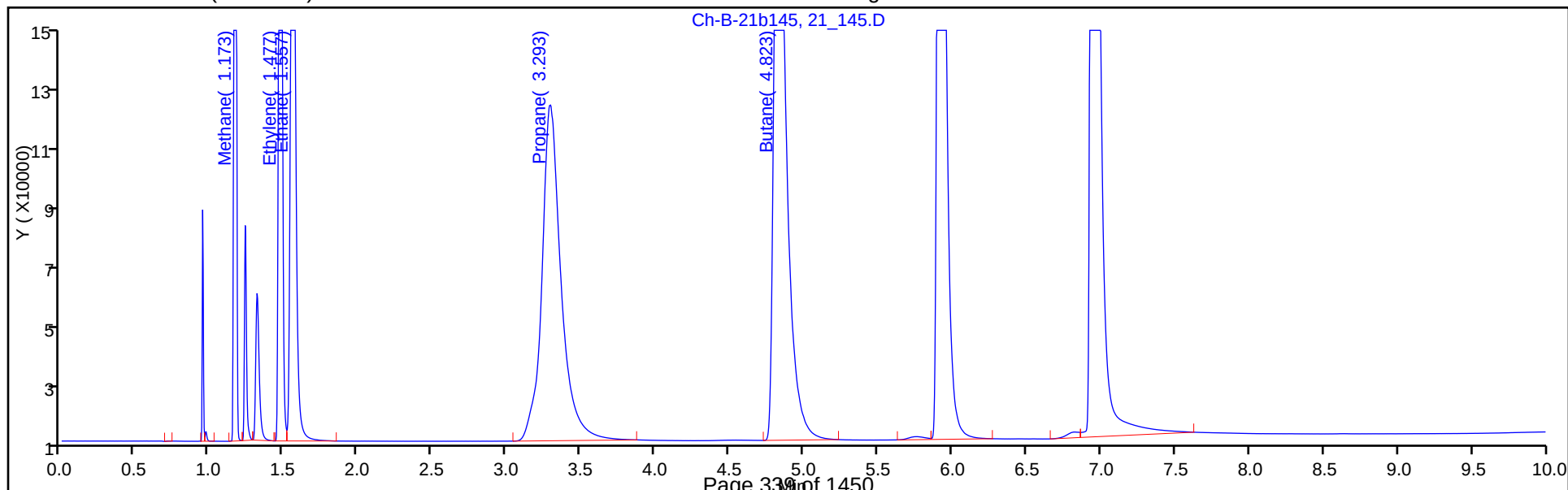
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D
 Lims ID: STD 600
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 12-Sep-2017 10:19:49 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:37 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert

Date: 12-Sep-2017 10:33:12

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	348303	233.1	241.4	
2	1.173	1.173	0.000	432230	233.1	241.0	

2 Ethane

1	1.757	1.757	0.000	686896	437.0	444.5	
2	1.557	1.560	-0.003	863572	437.0	441.6	

3 Ethylene

1	2.437	2.440	-0.003	587597	407.9	416.1	
2	1.473	1.477	-0.004	722355	407.9	413.4	

4 Propane

1	3.267	3.273	-0.006	1053498	641.0	639.0	
2	3.283	3.297	-0.014	1878077	641.0	768.0	

5 Butane

1	5.080	5.100	-0.020	1958529	836.5	1046.2	
2	4.817	4.833	-0.016	2422771	836.5	1009.5	

Reagents:

_RSK_STK_00022

Amount Added: 600.00

Units: uL

Report Date: 12-Sep-2017 11:53:37

Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_146.D

Injection Date: 12-Sep-2017 10:19:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 600

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

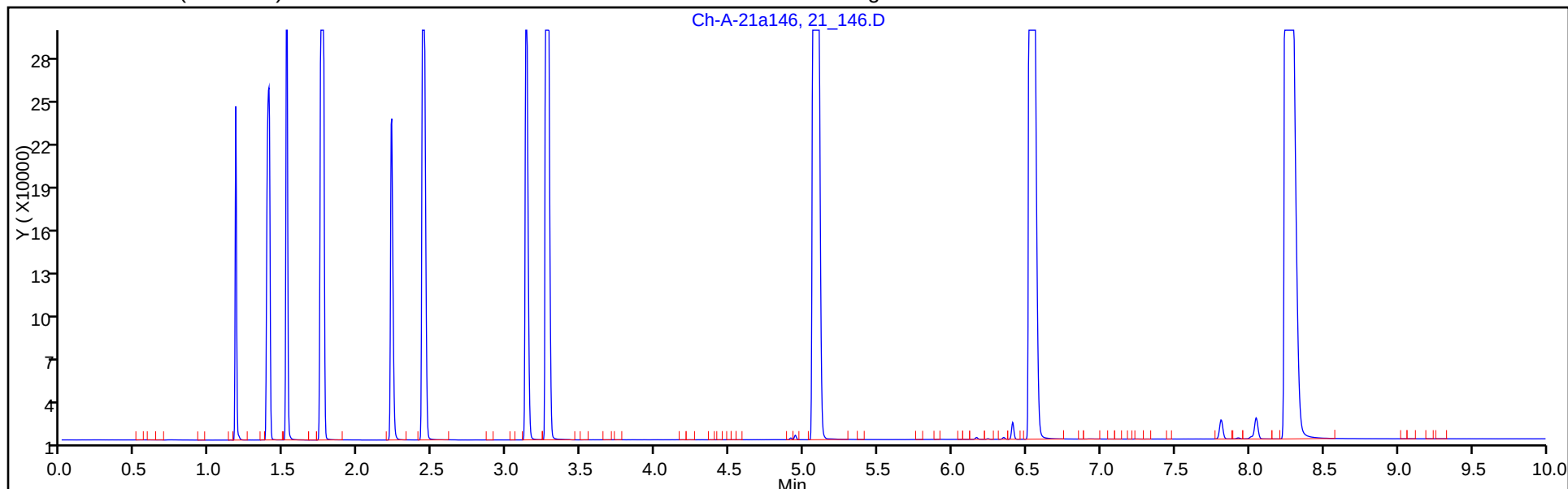
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

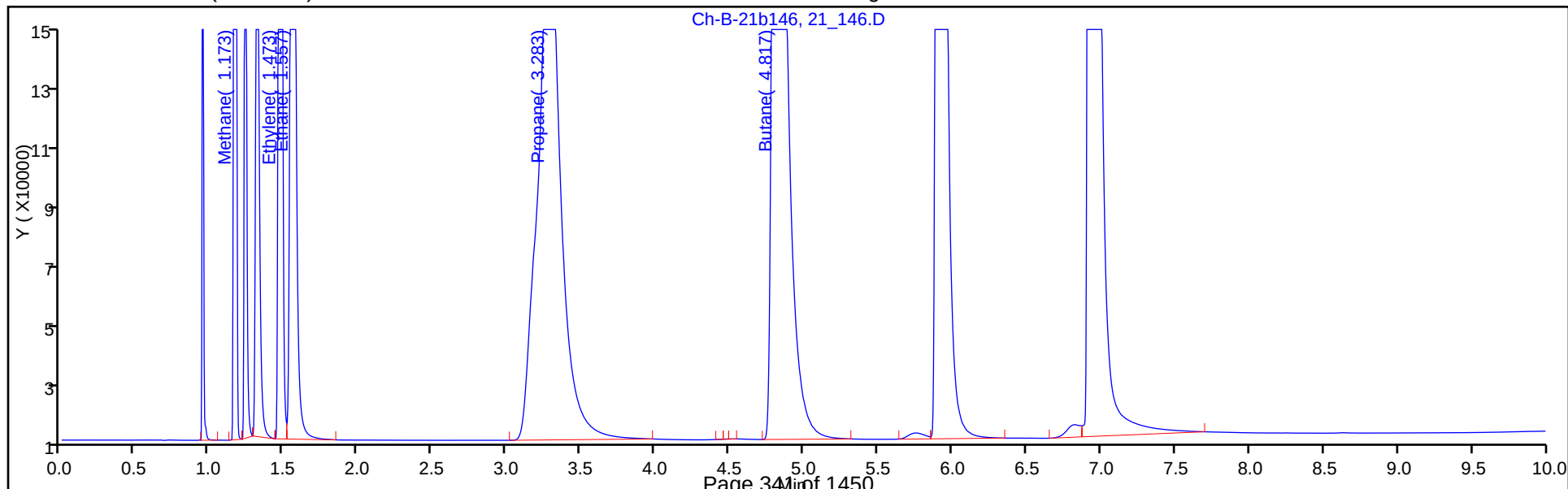
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D
 Lims ID: STD 800
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 12-Sep-2017 10:37:19 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:38 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert

Date: 12-Sep-2017 10:56:34

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							M
1	1.397	1.397	0.000	441234	310.8	306.7	
2	1.173	1.173	0.000	547330	310.8	306.3	M
2 Ethane							M
1	1.757	1.757	0.000	868187	582.7	563.1	
2	1.553	1.560	-0.007	1094346	582.7	561.2	M
3 Ethylene							M
1	2.433	2.440	-0.007	737510	543.9	523.5	
2	1.473	1.477	-0.004	909713	543.9	522.1	M
4 Propane							
1	3.260	3.273	-0.013	1335701	854.6	812.0	
2	3.260	3.297	-0.037	3657552	854.6	1500.3	
5 Butane							
1	5.077	5.100	-0.023	2267705	1115.4	1212.2	
2	4.797	4.833	-0.036	4720239	1115.4	1974.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022

Amount Added: 800.00

Units: uL

Report Date: 12-Sep-2017 11:53:38

Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_147.D

Injection Date: 12-Sep-2017 10:37:19

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 800

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

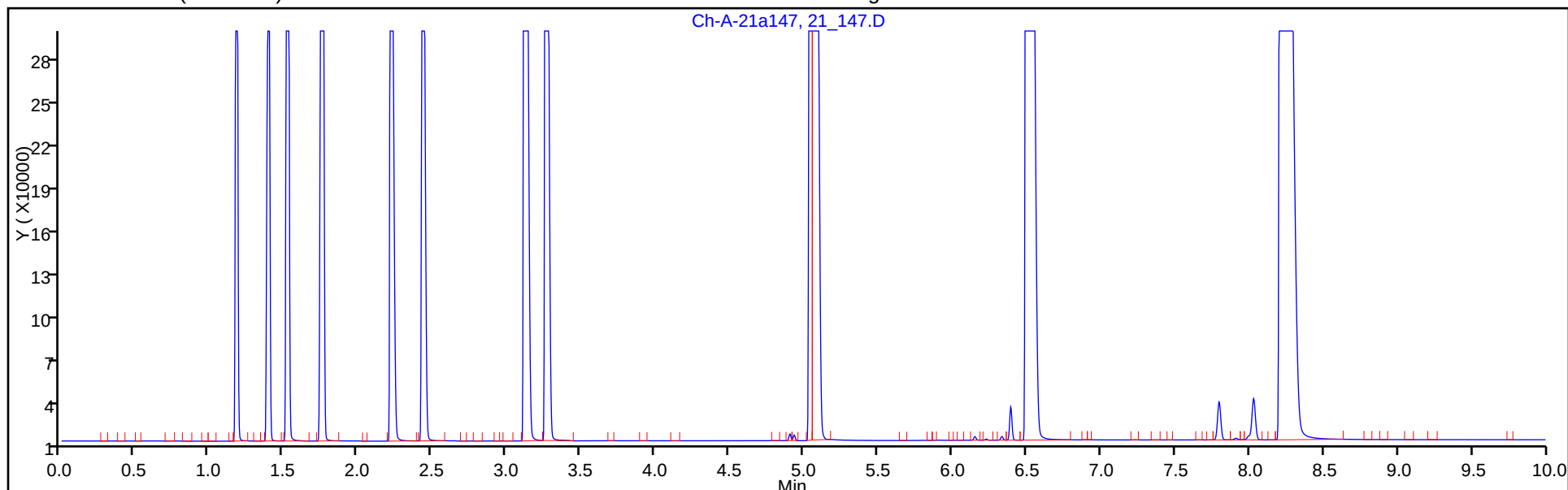
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

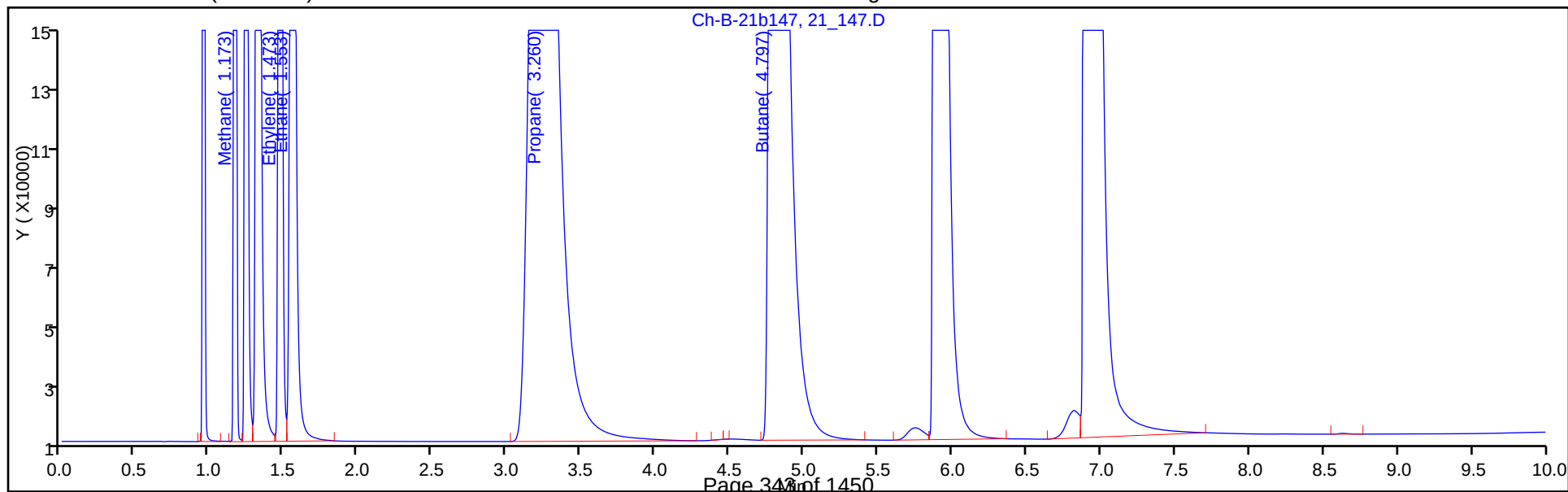
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Lims ID: STD 1000
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 12-Sep-2017 10:54:49 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 12-Sep-2017 11:53:39 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK014

First Level Reviewer: gentnert

Date: 12-Sep-2017 11:20:23

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.397	1.397	0.000	534455	388.5	372.2	
2	1.173	1.173	0.000	659021	388.5	369.7	

2 Ethane

1	1.757	1.757	0.000	1055861	728.4	686.0	
2	1.553	1.560	-0.007	1303879	728.4	669.9	

3 Ethylene

1	2.430	2.440	-0.010	900146	679.8	640.0	
2	1.473	1.477	-0.004	1094472	679.8	629.4	

4 Propane

1	3.260	3.273	-0.013	1577528	1068.3	960.2	M
2	3.237	3.297	-0.060	5269910	1068.3	2163.8	M

5 Butane

1	5.073	5.100	-0.027	4381497	1394.2	2346.6	
2	4.803	4.833	-0.030	6629701	1394.2	2776.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022

Amount Added: 1000.00

Units: uL

Report Date: 12-Sep-2017 11:53:39

Chrom Revision: 2.2 16-Aug-2017 16:24:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D

Injection Date: 12-Sep-2017 10:54:49

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: STD 1000

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

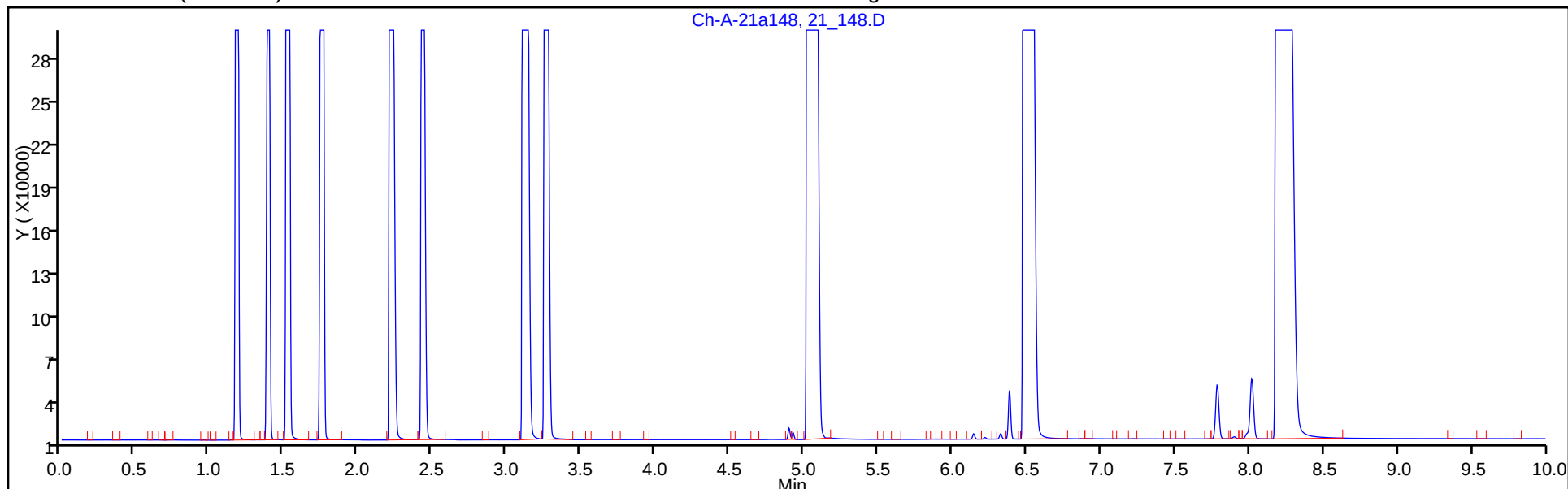
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

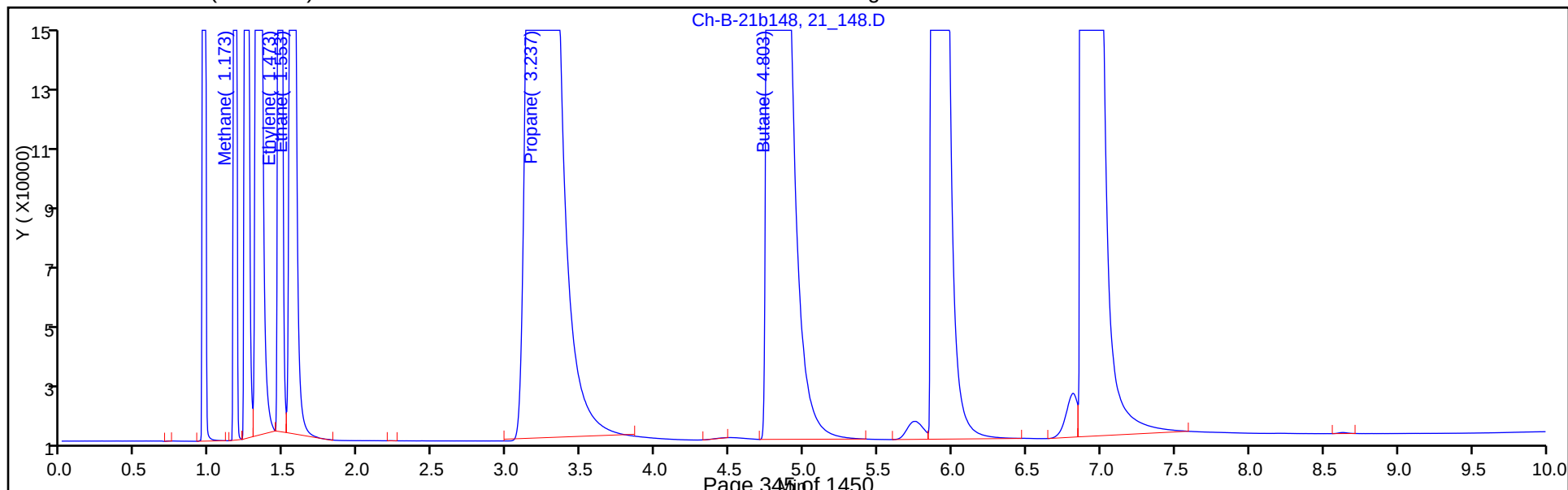
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

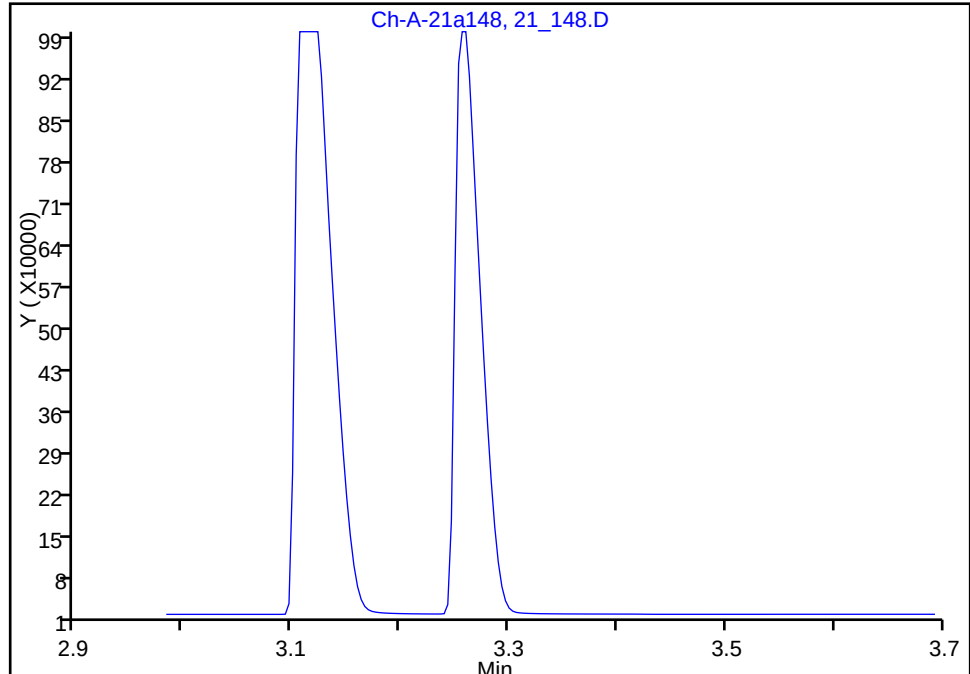
Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
Injection Date: 12-Sep-2017 10:54:49 Instrument ID: HP5890-21
Lims ID: STD 1000
Client ID:
Operator ID: BufTCHROM ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: RSK-175 Limit Group: GC - RSK175 ICAL
Column: Alumina (0.53 mm) Detector: Ch-A-21a09074

4 Propane, CAS: 74-98-6

Signal: 1

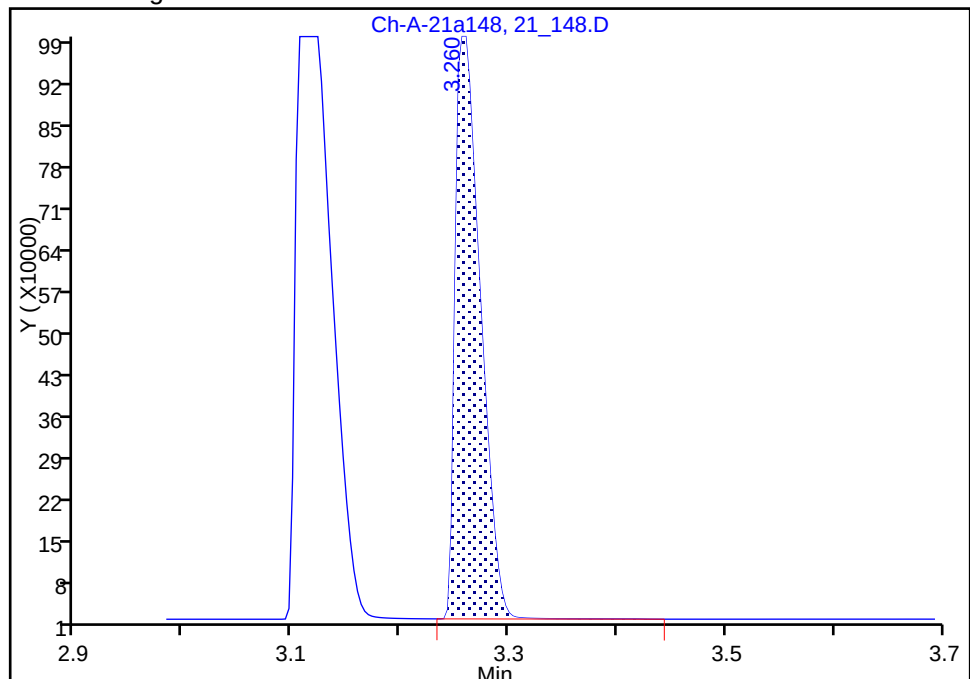
Not Detected
Expected RT: 3.27

Processing Integration Results



RT: 3.26
Area: 1577528
Amount: 960.1905
Amount Units: ug/l

Manual Integration Results



Reviewer: gentnert, 12-Sep-2017 11:10:42

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 480-417210/5 Calibration Date: 05/31/2018 10:31
Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
Lab File ID: 21_11_219.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1804		16.3	15.5	4.7	15.0
Ethane	Lin1		1872		30.5	29.1	4.8	15.0
Ethene	Lin1		1697		28.3	27.2	4.0	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 480-417210/5 Calibration Date: 05/31/2018 10:31
Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
Lab File ID: 21_11_219.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.76	1.71	1.81
Ethene	2.44	2.39	2.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_219.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-May-2018 10:31:33 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 01-Jun-2018 09:19:35 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK002

First Level Reviewer: clarkda

Date: 31-May-2018 10:49:47

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	28029	15.5	16.3	M
2	1.173	1.173	0.000	37261	15.5	16.8	M
2 Ethane							
1	1.757	1.757	0.000	54546	29.1	30.5	
2	1.543	1.543	0.000	71994	29.1	31.2	
3 Ethylene							
1	2.443	2.443	0.000	46135	27.2	28.3	
2	1.467	1.467	0.000	59863	27.2	28.8	
4 Propane							
1	3.270	3.270	0.000	84160	42.7	44.9	
2	3.260	3.260	0.000	110807	42.7	40.8	
5 Butane							
1	5.100	5.100	0.000	113191	55.8	55.9	
2	4.797	4.797	0.000	151691	55.8	55.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022

Amount Added: 40.00

Units: uL

Report Date: 01-Jun-2018 09:19:35

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_219.D

Injection Date: 31-May-2018 10:31:33

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

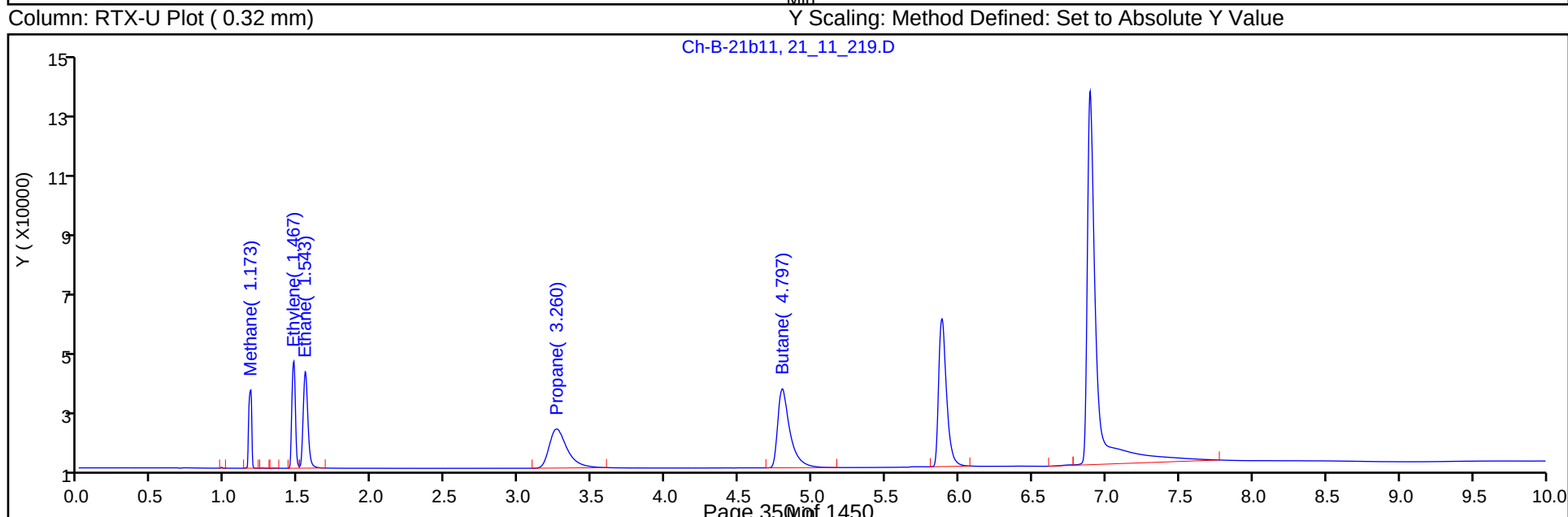
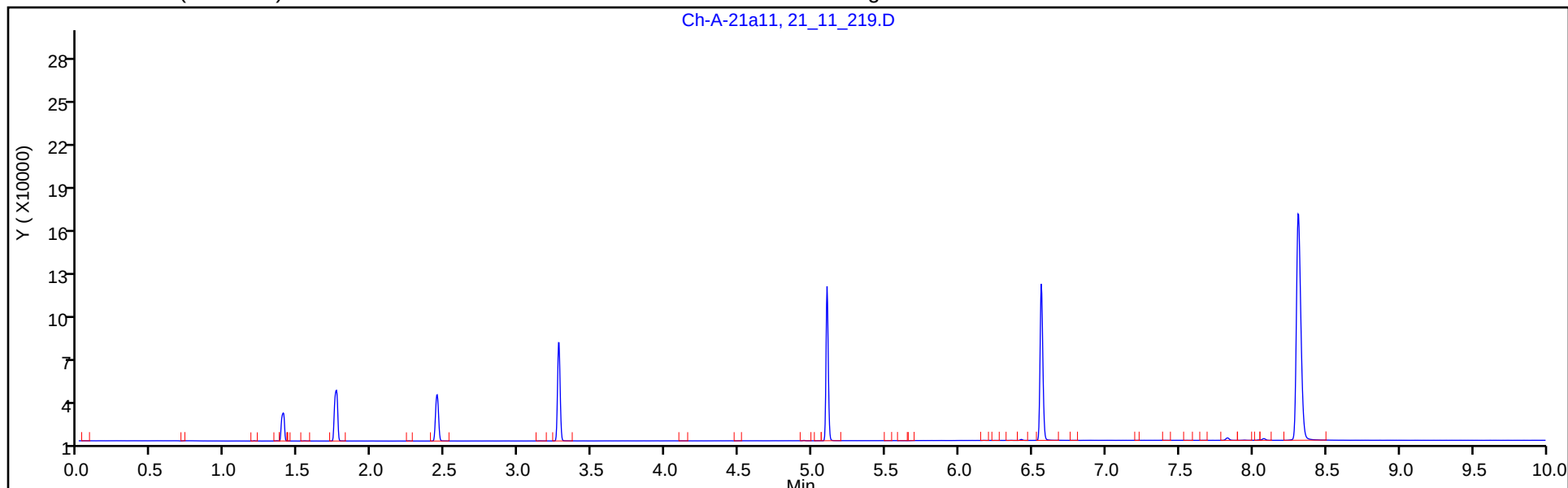
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

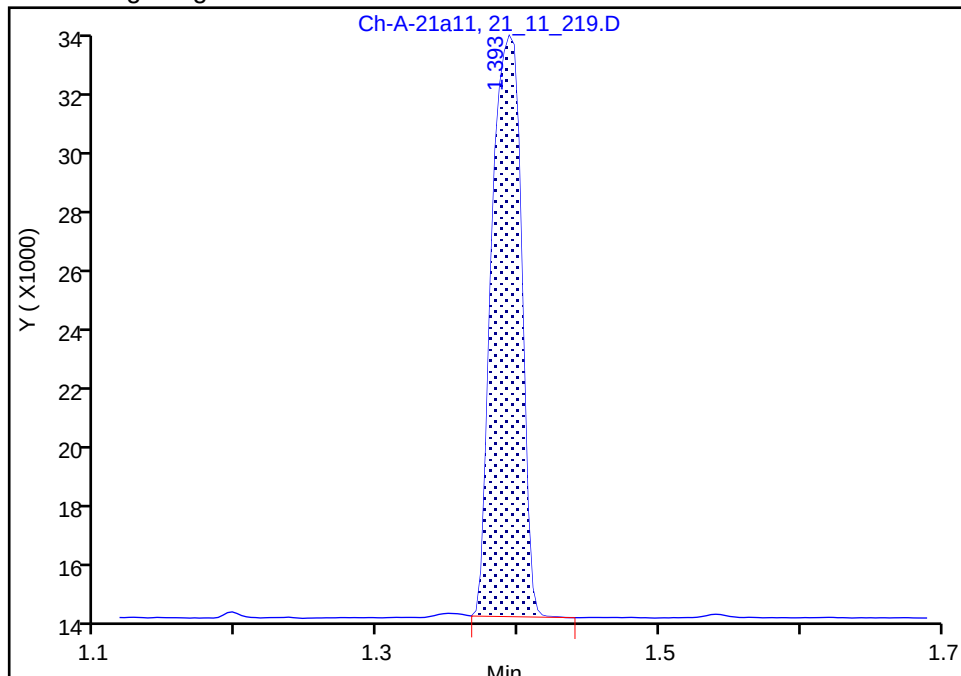
Data File:	\\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_219.D		
Injection Date:	31-May-2018 10:31:33	Instrument ID:	HP5890-21
Lims ID:	CCV		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0 Worklist Smp#: 5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	RSK-175	Limit Group:	GC - RSK175 ICAL
Column:	Alumina (0.53 mm)	Detector:	Ch-A-21a09074

1 Methane, CAS: 74-82-8

Signal: 1

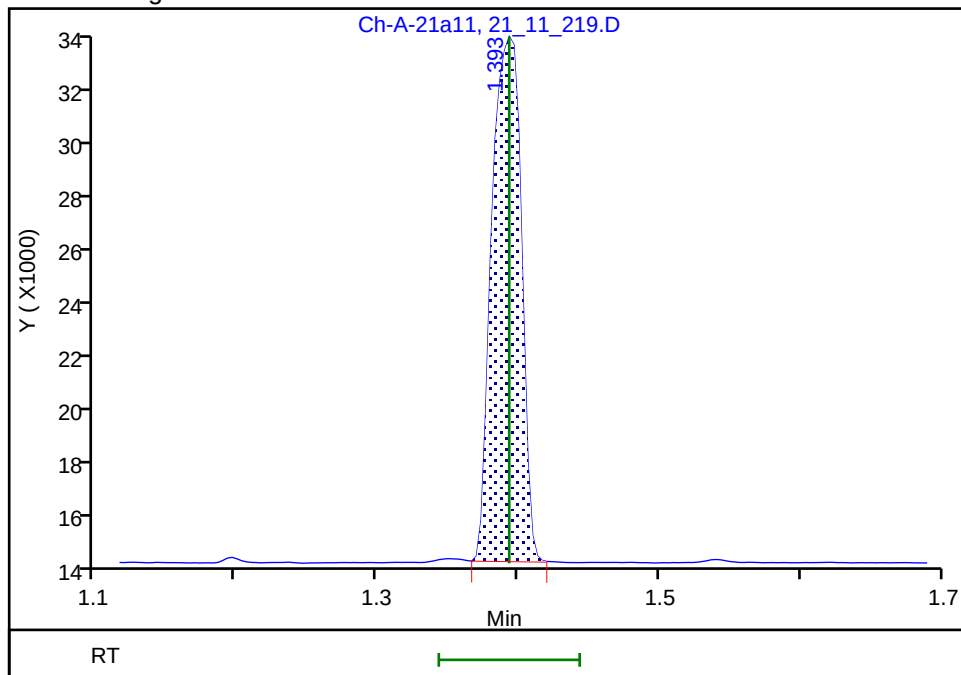
RT: 1.39
Area: 28043
Amount: 16.285508
Amount Units: ug/l

Processing Integration Results



RT: 1.39
Area: 28029
Amount: 16.275668
Amount Units: ug/l

Manual Integration Results



Reviewer: kiblerk, 01-Jun-2018 08:07:29

Audit Action: Split an Integrated Peak

Audit Reason: Shouldering

FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 480-417210/28 Calibration Date: 05/31/2018 19:08
Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
Lab File ID: 21_11_242.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		1950		17.9	15.5	15.0	15.0
Ethane	Lin1		2020		33.4	29.1	14.5	15.0
Ethene	Lin1		1849		31.3	27.2	14.9	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 480-417210/28 Calibration Date: 05/31/2018 19:08
Instrument ID: HP5890-21 Calib Start Date: 09/12/2017 08:34
GC Column: Alumina ID: 0.53 (mm) Calib End Date: 09/12/2017 10:54
Lab File ID: 21_11_242.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Methane	1.39	1.34	1.44
Ethane	1.76	1.71	1.81
Ethene	2.46	2.39	2.49

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_242.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 31-May-2018 19:08:43 ALS Bottle#: 0 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Sublist: chrom-RSK-175*sub8
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 01-Jun-2018 09:19:55 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK002

First Level Reviewer: kiblerk

Date: 01-Jun-2018 08:06:59

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Methane							
1	1.393	1.393	0.000	30307	15.5	17.9	M
2	1.173	1.173	0.000	40095	15.5	18.4	
2 Ethane							
1	1.760	1.757	0.003	58856	29.1	33.4	
2	1.547	1.543	0.004	78107	29.1	34.4	
3 Ethylene							
1	2.457	2.443	0.014	50286	27.2	31.3	
2	1.467	1.467	0.000	65186	27.2	31.9	
4 Propane							
1	3.283	3.270	0.013	89402	42.7	48.1	
2	3.263	3.260	0.003	117915	42.7	43.7	
5 Butane							
1	5.110	5.100	0.010	116154	55.8	57.5	
2	4.797	4.797	0.000	154367	55.8	56.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

_RSK_STK_00022

Amount Added: 40.00

Units: uL

Report Date: 01-Jun-2018 09:19:55

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_242.D

Injection Date: 31-May-2018 19:08:43

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: CCV

Worklist Smp#: 28

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

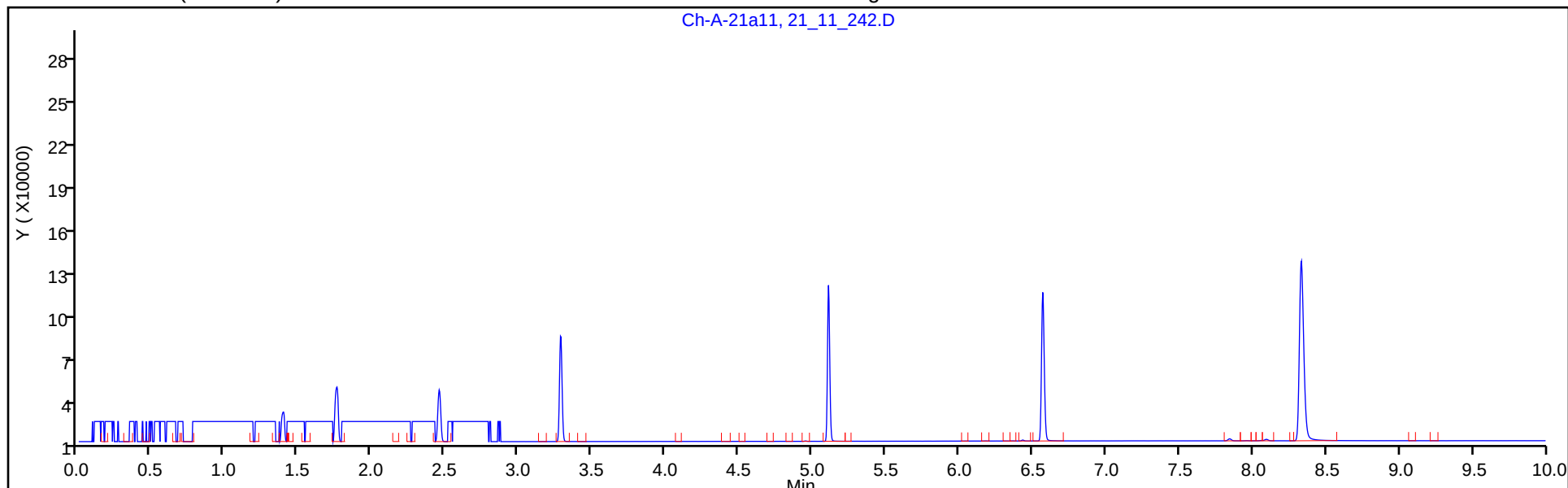
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

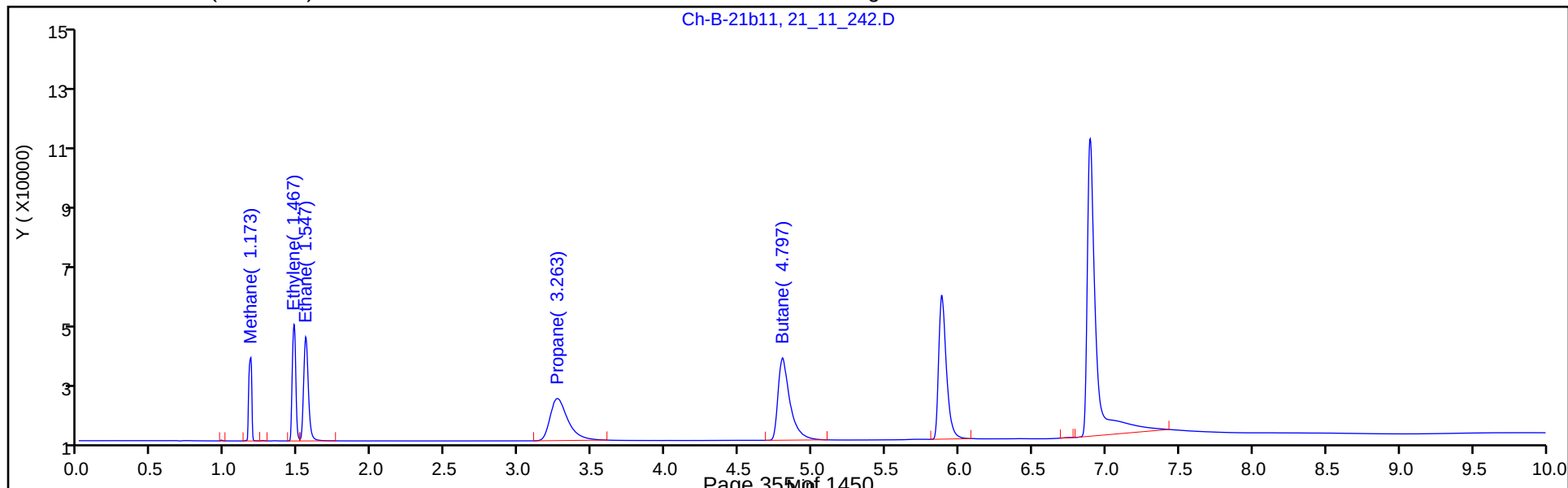
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



TestAmerica Buffalo

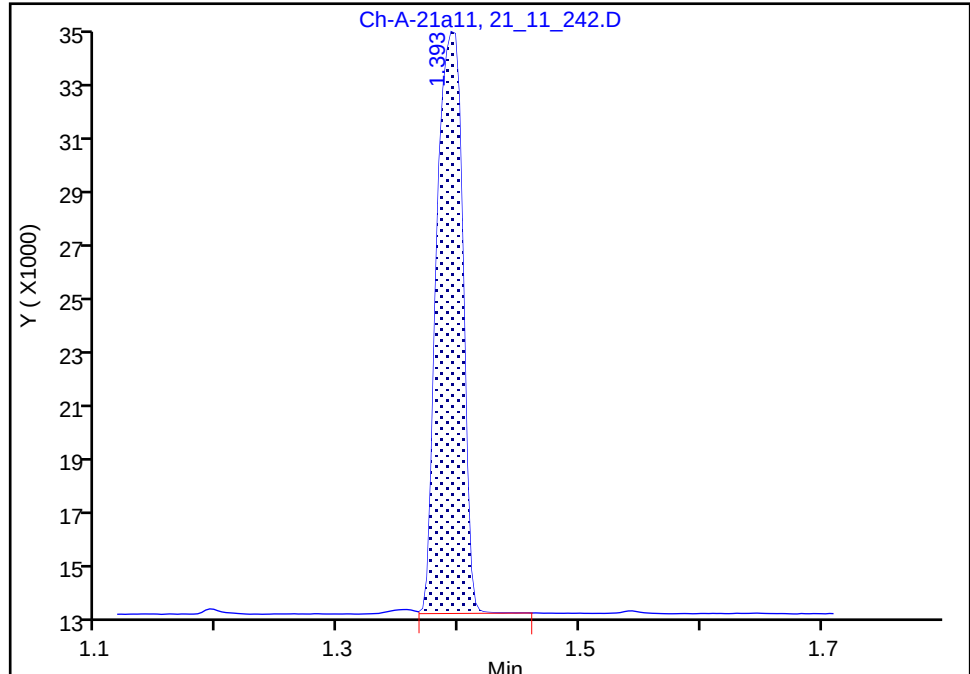
Data File:	\\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_242.D		
Injection Date:	31-May-2018 19:08:43	Instrument ID:	HP5890-21
Lims ID:	CCV		
Client ID:			
Operator ID:	BufTCHROM	ALS Bottle#:	0 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	RSK-175	Limit Group:	GC - RSK175 ICAL
Column:	Alumina (0.53 mm)	Detector	Ch-A-21a09074

1 Methane, CAS: 74-82-8

Signal: 1

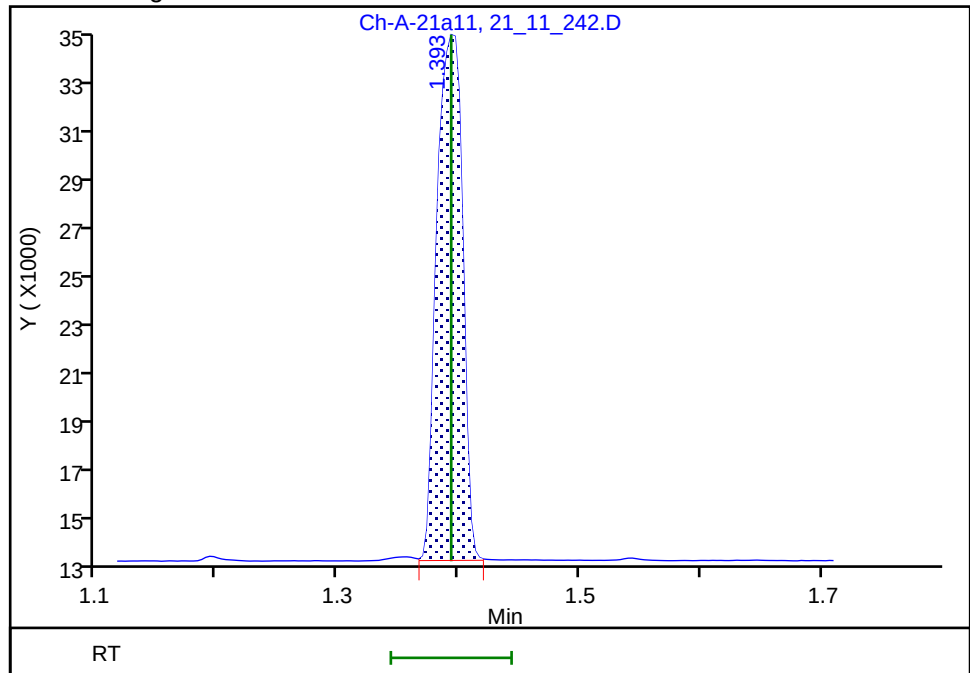
RT: 1.39
Area: 30337
Amount: 17.897729
Amount Units: ug/l

Processing Integration Results



RT: 1.39
Area: 30307
Amount: 17.876645
Amount Units: ug/l

Manual Integration Results



Reviewer: kiblerk, 01-Jun-2018 09:14:34
Audit Action: Split an Integrated Peak

Audit Reason: Shouldering

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-417210/6
Matrix: Water Lab File ID: 21_11_220.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 17(mL) Date Analyzed: 05/31/2018 10:49
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	1.0	U	4.0	1.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_220.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 31-May-2018 10:49:08 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 01-Jun-2018 09:19:35 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK002

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.393	1.393	0.000	1101		-2.65	
2	1.173	1.173	0.000	1819		-3.30	

2 Ethane

1	1.760	1.757	0.003	231		-5.01	
2	1.547	1.543	0.004	212		-6.03	

Report Date: 01-Jun-2018 09:19:36

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_220.D

Injection Date: 31-May-2018 10:49:08

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

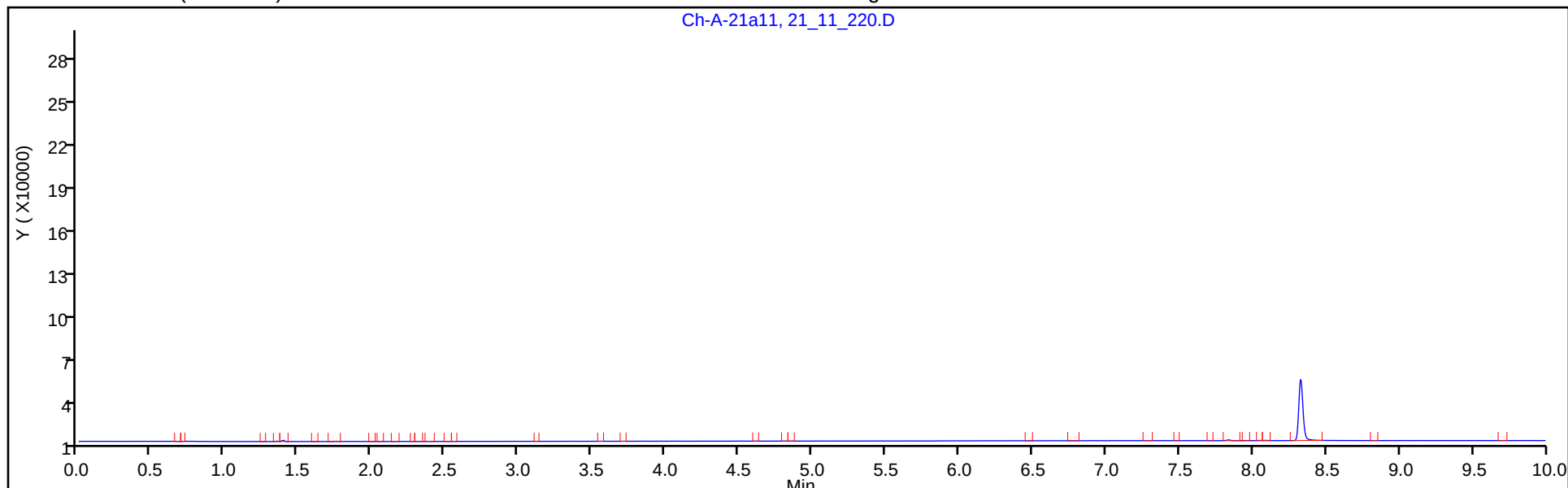
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

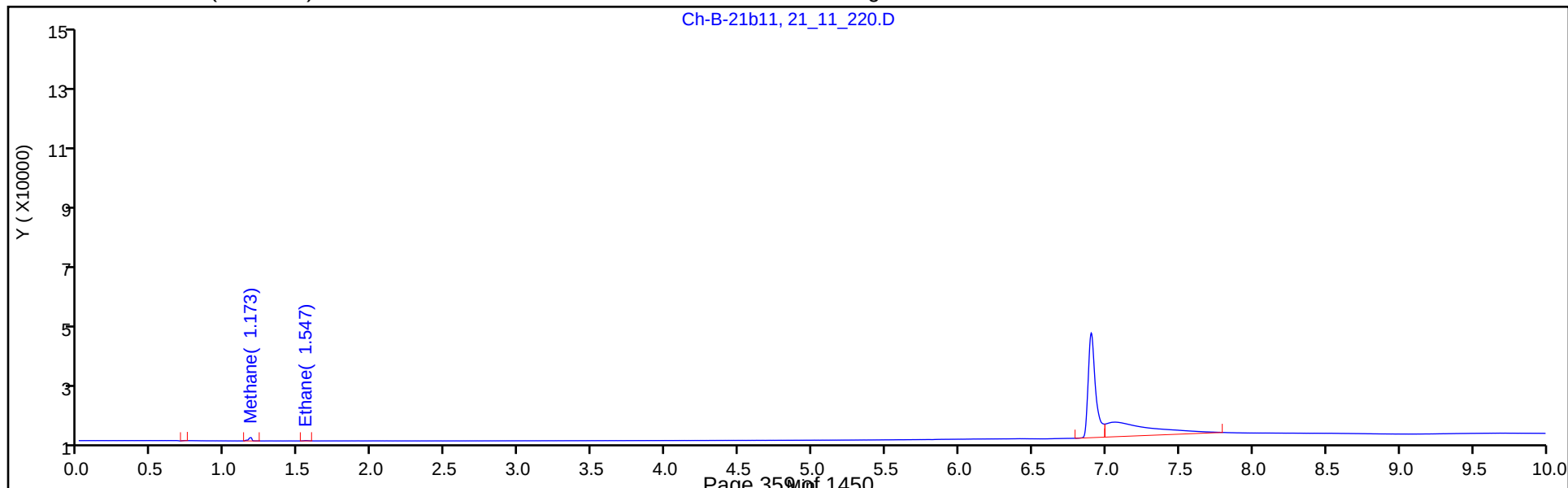
Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



Column: RTX-U Plot (0.32 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-417210/7
Matrix: Water Lab File ID: 21_11_221.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 17(mL) Date Analyzed: 05/31/2018 11:06
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	7.97		4.0	1.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_221.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 31-May-2018 11:06:38 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 01-Jun-2018 09:19:35 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK002

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	--------------	------------------	------------------	----------	-----------------	-------------------	-------

1 Methane

1	1.393	1.393	0.000	16216	7.77	7.97	
2	1.173	1.173	0.000	21915	7.77	8.10	

2 Ethane

1	1.757	1.757	0.000	30333	14.6	14.7	
2	1.547	1.543	0.004	40660	14.6	14.9	

3 Ethylene

1	2.447	2.443	0.004	25195	13.6	13.3	
2	1.467	1.467	0.000	33398	13.6	13.4	

4 Propane

1	3.277	3.270	0.007	46191	21.4	21.7	
2	3.267	3.260	0.007	64058	21.4	21.6	

5 Butane

1	5.107	5.100	0.007	61312	27.9	28.0	
2	4.797	4.797	0.000	86534	27.9	28.1	

Reagents:

_RSK_STK_00022

Amount Added: 20.00

Units: uL

Report Date: 01-Jun-2018 09:19:37

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_221.D

Injection Date: 31-May-2018 11:06:38

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: LCS

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

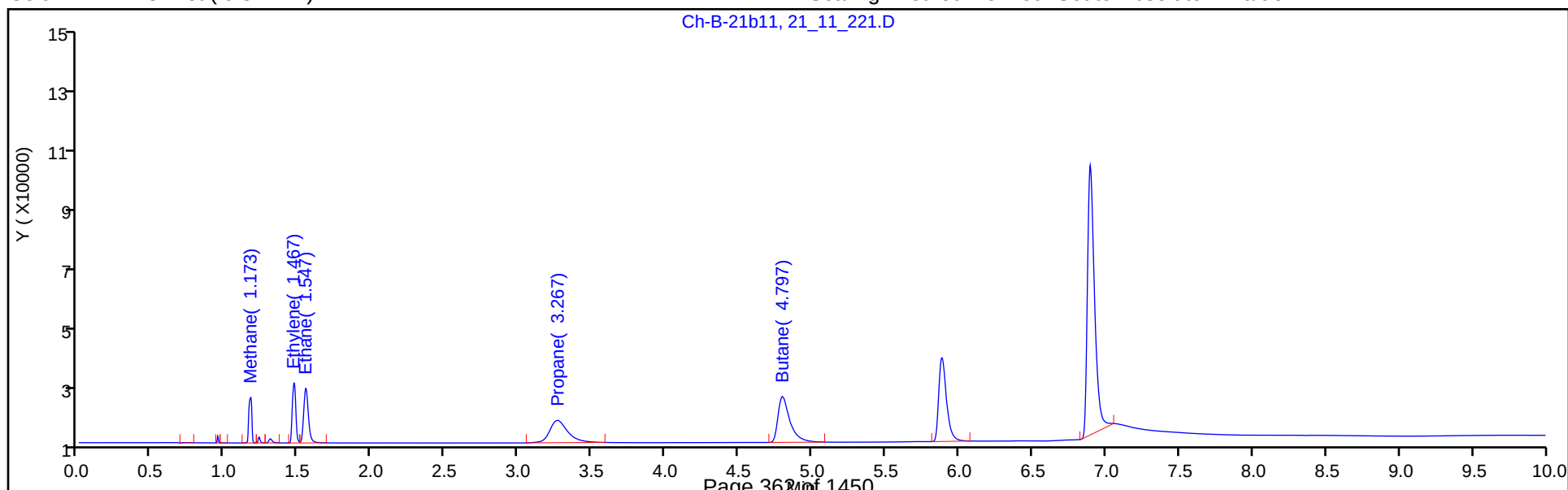
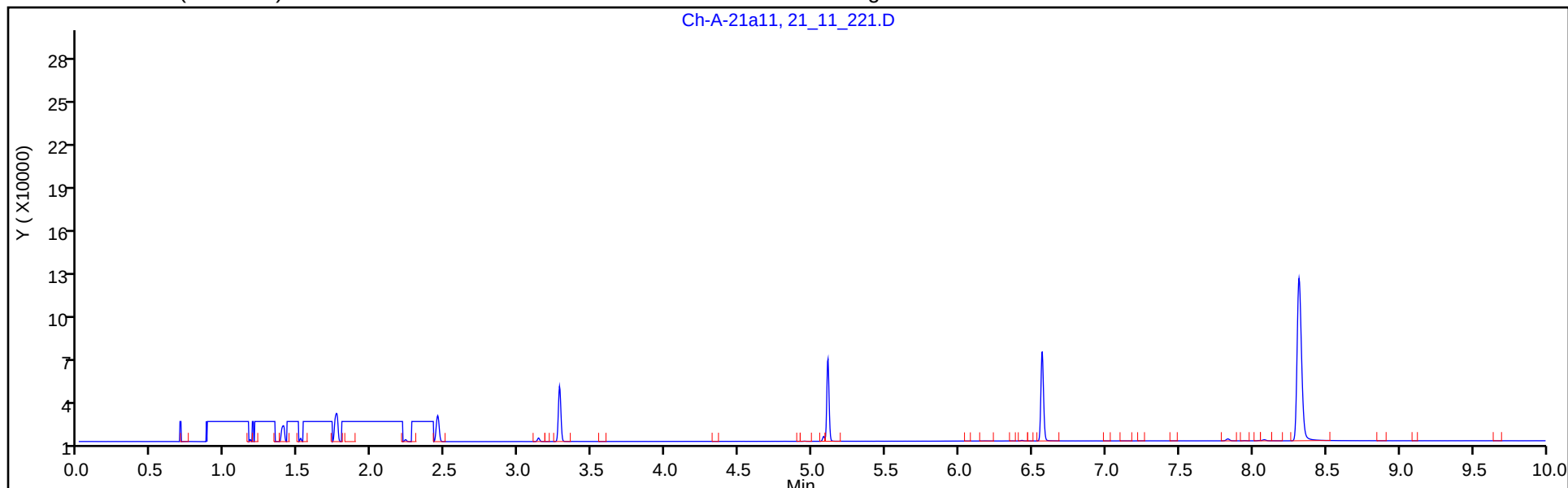
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-3-20180525 MS Lab Sample ID: 460-157038-1 MS
Matrix: Water Lab File ID: 21_11_224.D
Analysis Method: RSK-175 Date Collected: 05/25/2018 11:30
Sample wt/vol: 17(mL) Date Analyzed: 05/31/2018 13:53
Soil Aliquot Vol: _____ Dilution Factor: 11
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	599		44	11

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_224.D
 Lims ID: 460-157038-F-1 MS
 Client ID: NL-MW-3-20180525
 Sample Type: MS
 Inject. Date: 31-May-2018 13:53:42 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 11.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 01-Jun-2018 09:19:35 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK002

First Level Reviewer: kiblerk

Date: 31-May-2018 14:56:50

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.393	1.393	0.000	82339	7.77	54.4	
2	1.173	1.173	0.000	107052	7.77	56.4	

2 Ethane

1	1.757	1.757	0.000	31396	14.6	15.4	
2	1.547	1.543	0.004	41590	14.6	15.4	

3 Ethylene

1	2.437	2.443	-0.006	24428	13.6	12.7	
2	1.467	1.467	0.000	32344	13.6	12.8	

4 Propane

1	3.270	3.270	0.000	47291	21.4	22.3	
2	3.260	3.260	0.000	65761	21.4	22.3	

5 Butane

1	5.100	5.100	0.000	63414	27.9	29.2	
2	4.800	4.797	0.003	89581	27.9	29.4	

Reagents:

_RSK_STK_00022

Amount Added: 20.00

Units: uL

Report Date: 01-Jun-2018 09:19:40

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_224.D

Injection Date: 31-May-2018 13:53:42

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 460-157038-F-1 MS

Worklist Smp#: 9

Client ID: NL-MW-3-20180525

Purge Vol: 5.000 mL

Dil. Factor: 11.0000

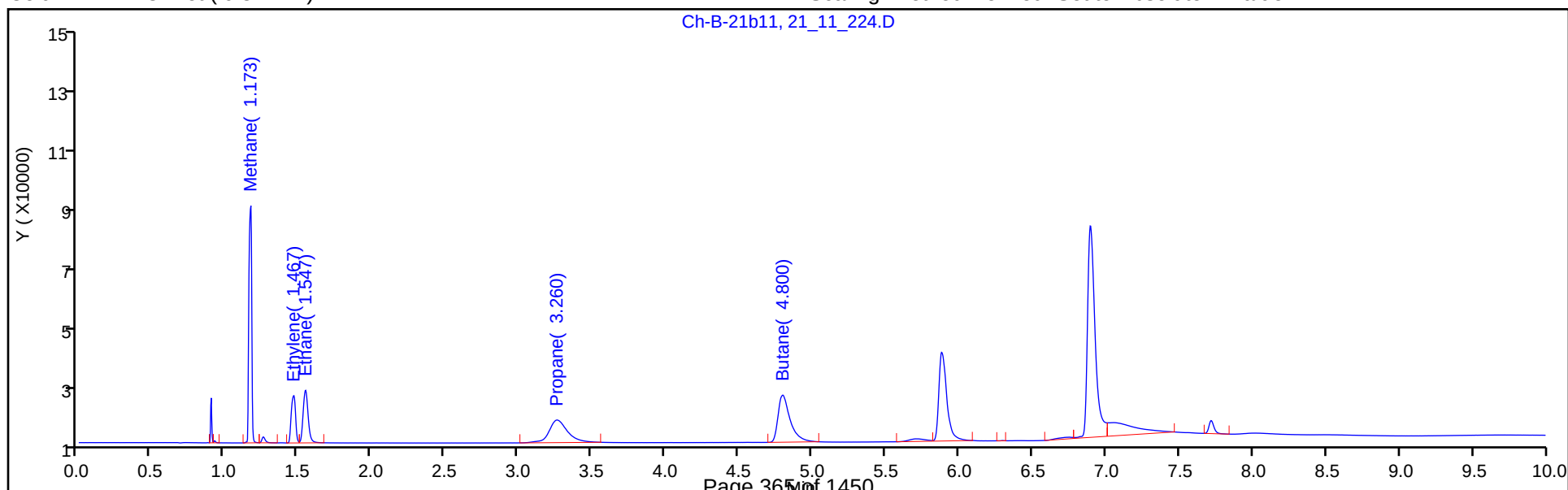
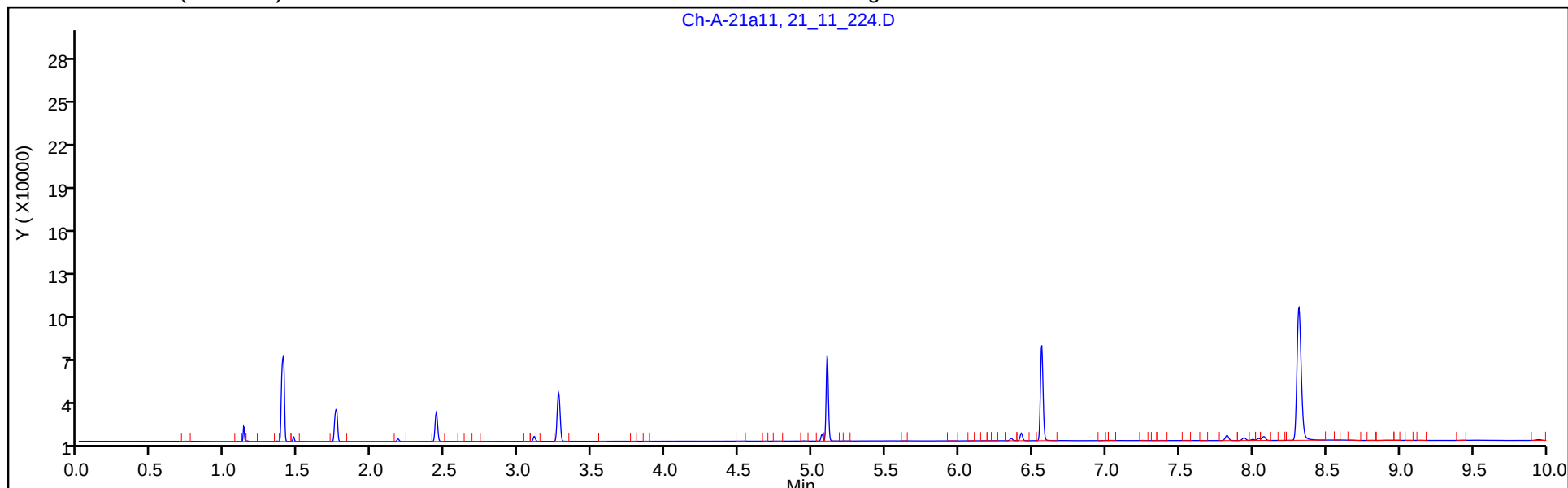
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-3-20180525 MSD Lab Sample ID: 460-157038-1 MSD
Matrix: Water Lab File ID: 21_11_225.D
Analysis Method: RSK-175 Date Collected: 05/25/2018 11:30
Sample wt/vol: 17(mL) Date Analyzed: 05/31/2018 14:11
Soil Aliquot Vol: _____ Dilution Factor: 11
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	437		44	11

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_225.D
 Lims ID: 460-157038-F-1 MSD
 Client ID: NL-MW-3-20180525
 Sample Type: MSD
 Inject. Date: 31-May-2018 14:11:12 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 11.0000
 Sample Info:
 Operator ID: BufTCHROM Instrument ID: HP5890-21
 Method: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\RSK-175.m
 Limit Group: GC - RSK175 ICAL
 Last Update: 01-Jun-2018 09:19:35 Calib Date: 12-Sep-2017 10:54:49
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Buffalo\ChromData\HP5890-21\20170912-65519.b\21_148.D
 Column 1 : Alumina (0.53 mm) Det: Ch-A-21a09074
 Column 2 : RTX-U Plot (0.32 mm) Det: Ch-B-21b09074
 Process Host: XAWRK002

First Level Reviewer: kiblerk

Date: 31-May-2018 14:48:22

Det	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Methane

1	1.393	1.393	0.000	61397	7.77	39.7	
2	1.173	1.173	0.000	77900	7.77	39.9	

2 Ethane

1	1.757	1.757	0.000	30855	14.6	15.0	
2	1.547	1.543	0.004	40624	14.6	14.9	

3 Ethylene

1	2.440	2.443	-0.003	25841	13.6	13.7	
2	1.467	1.467	0.000	33856	13.6	13.7	

4 Propane

1	3.273	3.270	0.003	46483	21.4	21.8	
2	3.267	3.260	0.007	61787	21.4	20.6	

5 Butane

1	5.103	5.100	0.003	61597	27.9	28.2	
2	4.797	4.797	0.000	84747	27.9	27.3	

Reagents:

_RSK_STK_00022

Amount Added: 20.00

Units: uL

Report Date: 01-Jun-2018 09:19:41

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5890-21\20180531-71965.b\21_11_225.D

Injection Date: 31-May-2018 14:11:12

Instrument ID: HP5890-21

Operator ID: BufTCHROM

Lims ID: 460-157038-F-1 MSD

Worklist Smp#: 10

Client ID: NL-MW-3-20180525

Purge Vol: 5.000 mL

Dil. Factor: 11.0000

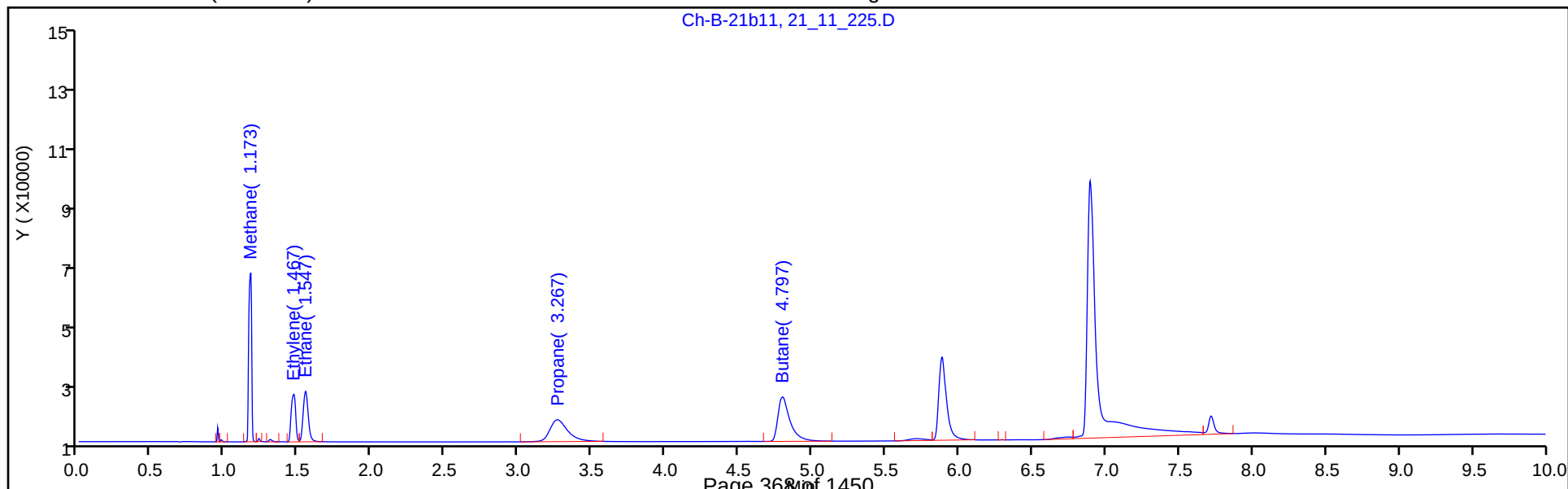
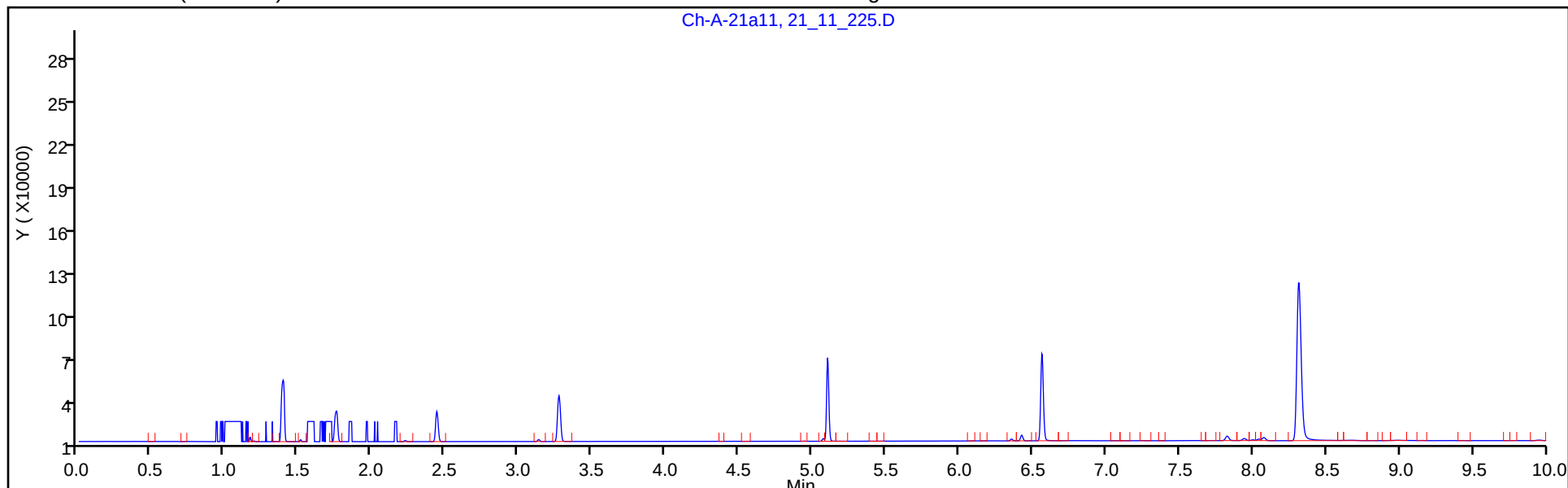
ALS Bottle#: 0

Method: RSK-175

Limit Group: GC - RSK175 ICAL

Column: Alumina (0.53 mm)

Y Scaling: Method Defined: Set to Absolute Y Value



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 460-157038-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 09/12/2017 08:34Analysis Batch Number: 376268End Date: 09/12/2017 11:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 480-376268/2 IC		09/12/2017 08:34	1	21_140.D	Alumina 0.53 (mm)
STD 480-376268/2 IC		09/12/2017 08:34	1		RTX-U Plot 0.32 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1	21_141.D	Alumina 0.53 (mm)
STD 480-376268/3 IC		09/12/2017 08:52	1		RTX-U Plot 0.32 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1	21_142.D	Alumina 0.53 (mm)
STD 480-376268/4 IC		09/12/2017 09:09	1		RTX-U Plot 0.32 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1	21_143.D	Alumina 0.53 (mm)
STD 480-376268/5 IC		09/12/2017 09:27	1		RTX-U Plot 0.32 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1	21_144.D	Alumina 0.53 (mm)
STD 480-376268/6 IC		09/12/2017 09:44	1		RTX-U Plot 0.32 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1	21_145.D	Alumina 0.53 (mm)
STD 480-376268/7 IC		09/12/2017 10:02	1		RTX-U Plot 0.32 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1	21_146.D	Alumina 0.53 (mm)
STD 480-376268/8 IC		09/12/2017 10:19	1		RTX-U Plot 0.32 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1	21_147.D	Alumina 0.53 (mm)
STD 480-376268/9 IC		09/12/2017 10:37	1		RTX-U Plot 0.32 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1	21_148.D	Alumina 0.53 (mm)
STD 480-376268/10 IC		09/12/2017 10:54	1		RTX-U Plot 0.32 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		Alumina 0.53 (mm)
ICV 480-376268/11		09/12/2017 11:12	1		RTX-U Plot 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 460-157038-1

SDG No.: _____

Instrument ID: HP5890-21Start Date: 05/31/2018 10:31Analysis Batch Number: 417210End Date: 05/31/2018 19:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-417210/5		05/31/2018 10:31	1	21_11_219.D	Alumina 0.53 (mm)
CCV 480-417210/5		05/31/2018 10:31	1		RTX-U Plot 0.32 (mm)
MB 480-417210/6		05/31/2018 10:49	1	21_11_220.D	Alumina 0.53 (mm)
ZZZZZ		05/31/2018 10:49	1		RTX-U Plot 0.32 (mm)
LCS 480-417210/7		05/31/2018 11:06	1	21_11_221.D	Alumina 0.53 (mm)
ZZZZZ		05/31/2018 11:06	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 12:00	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 12:00	1		RTX-U Plot 0.32 (mm)
460-157038-1		05/31/2018 13:36	11	21_11_223.D	Alumina 0.53 (mm)
ZZZZZ		05/31/2018 13:36	11		RTX-U Plot 0.32 (mm)
460-157038-1 MS		05/31/2018 13:53	11	21_11_224.D	Alumina 0.53 (mm)
ZZZZZ		05/31/2018 13:53	11		RTX-U Plot 0.32 (mm)
460-157038-1 MSD		05/31/2018 14:11	11	21_11_225.D	Alumina 0.53 (mm)
ZZZZZ		05/31/2018 14:11	11		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 14:28	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 14:28	1		RTX-U Plot 0.32 (mm)
460-157038-3		05/31/2018 14:46	1	21_11_227.D	Alumina 0.53 (mm)
ZZZZZ		05/31/2018 14:46	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 15:03	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 15:03	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 15:21	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 15:21	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 15:38	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 15:38	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 15:56	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 15:56	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 16:13	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 16:13	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 16:31	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 16:31	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 16:48	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 16:48	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 17:06	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 17:06	1		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 17:23	22		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 17:23	22		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 17:41	1		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 17:41	1		RTX-U Plot 0.32 (mm)
460-157038-2		05/31/2018 17:58	11	21_11_238.D	Alumina 0.53 (mm)
ZZZZZ		05/31/2018 17:58	11		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 18:16	22		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 18:16	22		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 18:33	22		Alumina 0.53 (mm)
ZZZZZ		05/31/2018 18:33	22		RTX-U Plot 0.32 (mm)
ZZZZZ		05/31/2018 18:51	22		Alumina 0.53 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1

SDG No.: _____

Instrument ID: HP5890-21 Start Date: 05/31/2018 10:31Analysis Batch Number: 417210 End Date: 05/31/2018 19:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/31/2018 18:51	22		RTX-U Plot 0.32 (mm)
CCV 480-417210/28		05/31/2018 19:08	1	21_11_242.D	Alumina 0.53 (mm)
CCV 480-417210/28		05/31/2018 19:08	1		RTX-U Plot 0.32 (mm)

300_ORGFM_28D

Anions, Ion Chromatography

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: LCS_TAIEDIIC2_Anions_20180527
Lab ID: LCS 460-522878/5 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	7.50	7.300	97	90-110	
Chloride	1.50	1.396	93	90-110	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: LCS_TAIEDIIC2_Anions_20180527
Lab ID: LCS 460-522969/5 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC	QC LIMITS REC	#
Sulfate	7.50	7.241	97	90-110	
Chloride	1.50	1.395	93	90-110	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LCS_TAIEDIIC2_Anions_20180527
 Lab ID: LCSD 460-522878/6 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Sulfate	7.50	7.123	95	2	15	90-110	
Chloride	1.50	1.386	92	1	15	90-110	

Column to be used to flag recovery and RPD values

FORM III
HPLC/IC LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: LCS_TAIEDIIC2_Anions_20180527
 Lab ID: LCSD 460-522969/6 Client ID: _____

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Sulfate	7.50	7.082	94	2	15	90-110	
Chloride	1.50	1.386	92	1	15	90-110	

Column to be used to flag recovery and RPD values

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab File ID: MB_TAIEDIIC2_Anions_20180527- Lab Sample ID: MB 460-522878/3
 Matrix: Water Date Extracted: _____
 Instrument ID: IC 2 Date Analyzed: 05/26/2018 23:46
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 460-522878/2	CCB_TAIEDII C2_Anions_2 0180527-093 849.d	05/26/2018 23:30
	LCS 460-522878/5	LCS_TAIEDII C2_Anions_2 0180527-003 415.d	05/27/2018 00:18
	LCSD 460-522878/6	LCS_TAIEDII C2_Anions_2 0180527-005 012.d	05/27/2018 00:34
	CCB 460-522878/14	CCB_TAIEDII C2_Anions_2 0180527-033 441.d	05/27/2018 03:18
	CCB 460-522878/26	CCB_TAIEDII C2_Anions_2 0180527-070 659.d	05/27/2018 06:51
NL-MW-3-20180525 MS DL	460-157038-1 MS DL	460-0072739 -030_TAIEDI IC2_Anions_ 20180527-08 1051.d	05/27/2018 07:55
NL-MW-3-20180525 MSD DL	460-157038-1 MSD DL	460-0072739 -031_TAIEDI IC2_Anions_ 20180527-08 2647.d	05/27/2018 08:11
NL-FB-20180525 DL	460-157038-3 DL	460-0072739 -033_TAIEDI IC2_Anions_ 20180527-08 5812.d	05/27/2018 08:42
	CCB 460-522878/36	CCB_TAIEDII C2_Anions_2 0180527-095 448.d	05/27/2018 09:38

FORM IV
HPLC/IC METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab File ID: MB_TAIEDIIC2_Anions_20180527- Lab Sample ID: MB 460-522969/3
 Matrix: Water Date Extracted: _____
 Instrument ID: IC 2 Date Analyzed: 05/27/2018 09:54
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	CCB 460-522969/2	CCB_TAIEDII C2_Anions_2 0180527-110 535.d	05/27/2018 09:38
	LCS 460-522969/5	LCS_TAIEDII C2_Anions_2 0180527-104 242.d	05/27/2018 10:26
	LCSD 460-522969/6	LCS_TAIEDII C2_Anions_2 0180527-105 839.d	05/27/2018 10:42
	CCB 460-522969/14	CCB_TAIEDII C2_Anions_2 0180527-140 257.d	05/27/2018 13:47
NL-MW-3-20180525 DL2	460-157038-1 DL2	460-0072739 -028_TAIEDI IC2_Anions 20180527-14 5006.d	05/27/2018 14:34
NL-MW-3-20180525 DU DL2	460-157038-1 DU DL2	460-0072739 -029_TAIEDI IC2_Anions 20180527-15 0549.d	05/27/2018 14:50
NL-MW-DUP-20180525 DL2	460-157038-2 DL2	460-0072739 -032_TAIEDI IC2_Anions 20180527-16 0101.d	05/27/2018 15:45
NL-FB-20180525	460-157038-3	157038-3_TA IEDIIC2_Ani ons_2018052 7-164843.d	05/27/2018 16:32
	CCB 460-522969/26	CCB_TAIEDII C2_Anions_2 0180527-174 122.d	05/27/2018 17:25

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-3-20180525 DL2 Lab Sample ID: 460-157038-1 DL2
Matrix: Water Lab File ID: 460-0072739-028_TAIEDIIC2_Anio
Analysis Method: 300.0 Date Collected: 05/25/2018 11:30
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 14:34
Con. Extract Vol.: _____ Dilution Factor: 160
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	320		96.0	53.1
16887-00-6	Chloride	401		19.2	12.5

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\460-0072739-028_TAIEDIIC2_Anions_20180527-1450
 Lims ID: 460-157038-G-1
 Client ID: NL-MW-3-20180525
 Sample Type: Client
 Inject. Date: 27-May-2018 14:34:00 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 10.0 ul Dil. Factor: 160.0000
 Sample Info: 460-0072739-028
 Misc. Info.: 460-0072739-028
 Operator ID: ediic2 Instrument ID: IC 2
 Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 22:07:31 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 :

Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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7 Fluoride

2.615 2.788 -0.173 47267 0.000867

2 Chloride

3.847 3.862 -0.015 34492717 2.51

1 Bromide

5.417 5.502 -0.085 5735 0.3824

3 Nitrate as N

6.240 6.237 0.003 746848 NC

5 Sulfate

9.670 9.715 -0.045 19009523 2.00

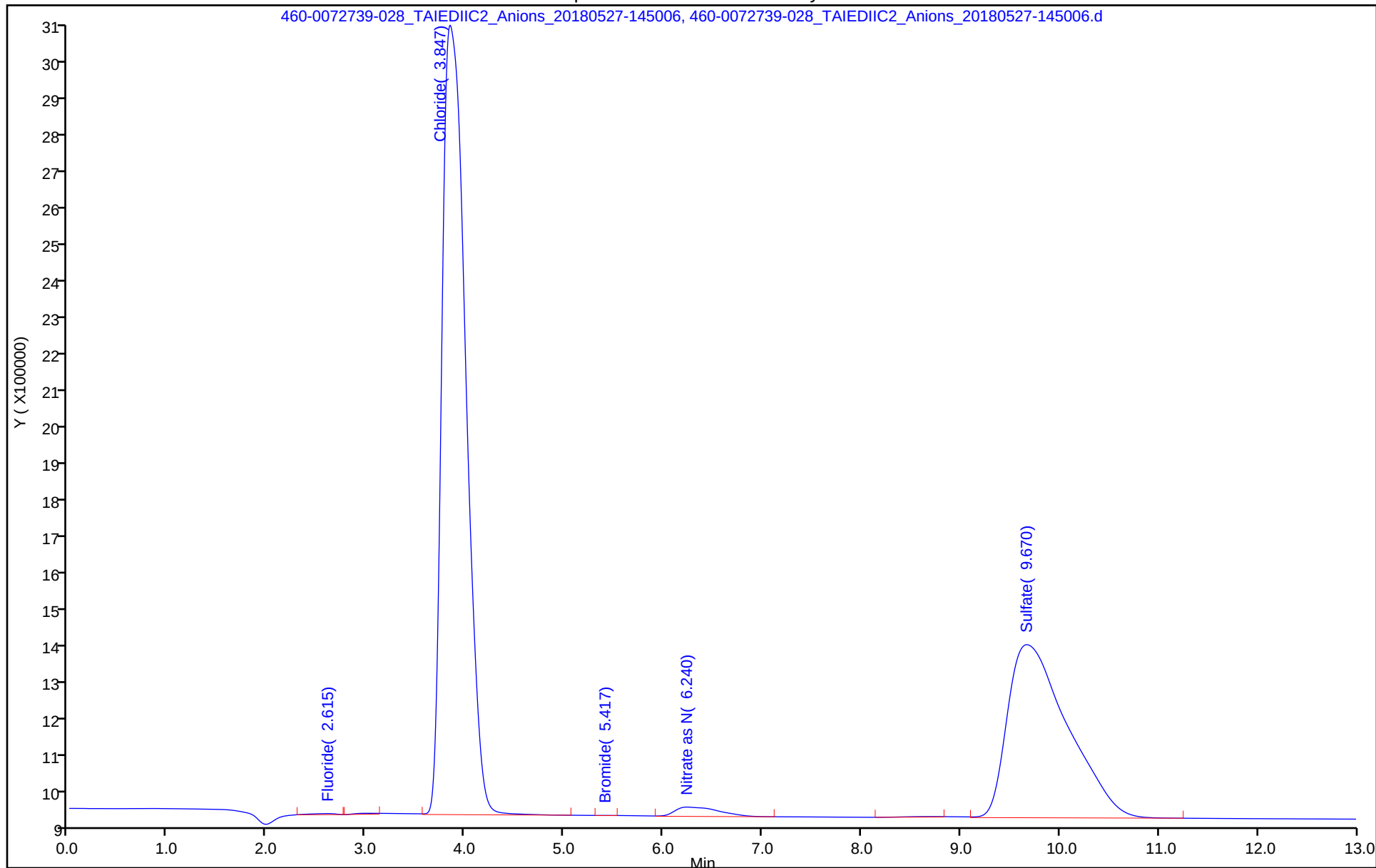
QC Flag Legend

Processing Flags

NC - Not Calibrated

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\460-0072739-028_TAIEDIIC2_Anions_20180527-145006.d
Injection Date: 27-May-2018 14:34:00 Instrument ID: IC 2 Operator ID: edlic2
Lims ID: 460-157038-G-1 Lab Sample ID: 460-157038-1 Worklist Smp#: 17
Client ID: NL-MW-3-20180525
Injection Vol: 10.0 ul Dil. Factor: 160.0000 ALS Bottle#: 0
Method: Anions-ic2 Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-DUP-20180525 DL2 Lab Sample ID: 460-157038-2 DL2
Matrix: Water Lab File ID: 460-0072739-032_TAIEDIIC2_Anio
Analysis Method: 300.0 Date Collected: 05/25/2018 11:50
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 15:45
Con. Extract Vol.: _____ Dilution Factor: 100
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	323		60.0	33.2
16887-00-6	Chloride	425		12.0	7.80

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\460-0072739-032_TAIEDIIC2_Anions_20180527-1601
Lims ID: 460-157038-G-2
Client ID: NL-MW-DUP-20180525
Sample Type: Client
Inject. Date: 27-May-2018 15:45:00 ALS Bottle#: 0 Worklist Smp#: 21
Injection Vol: 10.0 ul Dil. Factor: 100.0000
Sample Info: 460-0072739-032
Misc. Info.: 460-0072739-032
Operator ID: ediic2 Instrument ID: IC 2
Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
Limit Group: SV - Anions 28 days
Last Update: 27-May-2018 22:07:31 Calib Date: 23-May-2018 23:45:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 :

Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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2 Chloride

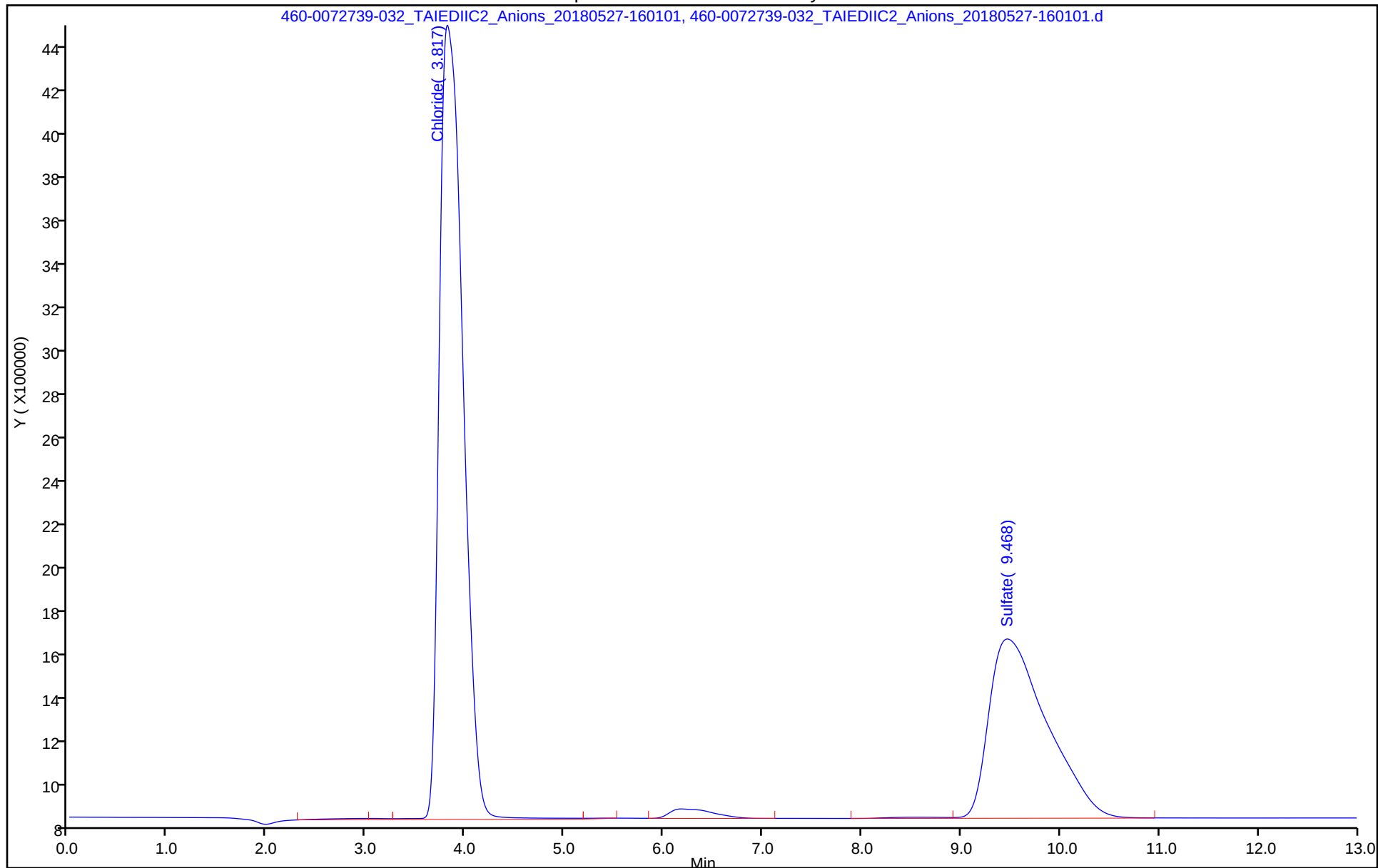
3.817 3.862 -0.045 59291025 4.25

5 Sulfate

9.468 9.715 -0.247 32733998 3.23

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180527-72762.b\\460-0072739-032_TAIEDIIC2_Anions_20180527-160101.d
Injection Date: 27-May-2018 15:45:00 Instrument ID: IC 2 Operator ID: edlic2
Lims ID: 460-157038-G-2 Lab Sample ID: 460-157038-2 Worklist Smp#: 21
Client ID: NL-MW-DUP-20180525
Injection Vol: 10.0 ul Dil. Factor: 100.0000 ALS Bottle#: 0
Method: Anions-ic2 Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-FB-20180525 Lab Sample ID: 460-157038-3
Matrix: Water Lab File ID: 157038-3_TAIEDIIC2_Anions_2018
Analysis Method: 300.0 Date Collected: 05/25/2018 12:00
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 16:32
Con. Extract Vol.: _____ Dilution Factor: 1
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.33	U	0.60	0.33

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\157038-3_TAIEDIIC2_Anions_20180527-164843.d
Lims ID: 460-157038-G-3
Client ID: NL-FB-20180525
Sample Type: Client
Inject. Date: 27-May-2018 16:32:00 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: 157038-3
Misc. Info.: 157038-3
Operator ID: ediic2 Instrument ID: IC 2
Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
Limit Group: SV - Anions 28 days
Last Update: 27-May-2018 22:07:31 Calib Date: 23-May-2018 23:45:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 :

Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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2 Chloride

3.828 3.862 -0.034 556958 0.1275

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180527-72762.b\\157038-3_TAIEDIIC2_Anions_20180527-164843.d

Injection Date: 27-May-2018 16:32:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: 460-157038-G-3

Lab Sample ID: 460-157038-3

Worklist Smp#: 24

Client ID: NL-FB-20180525

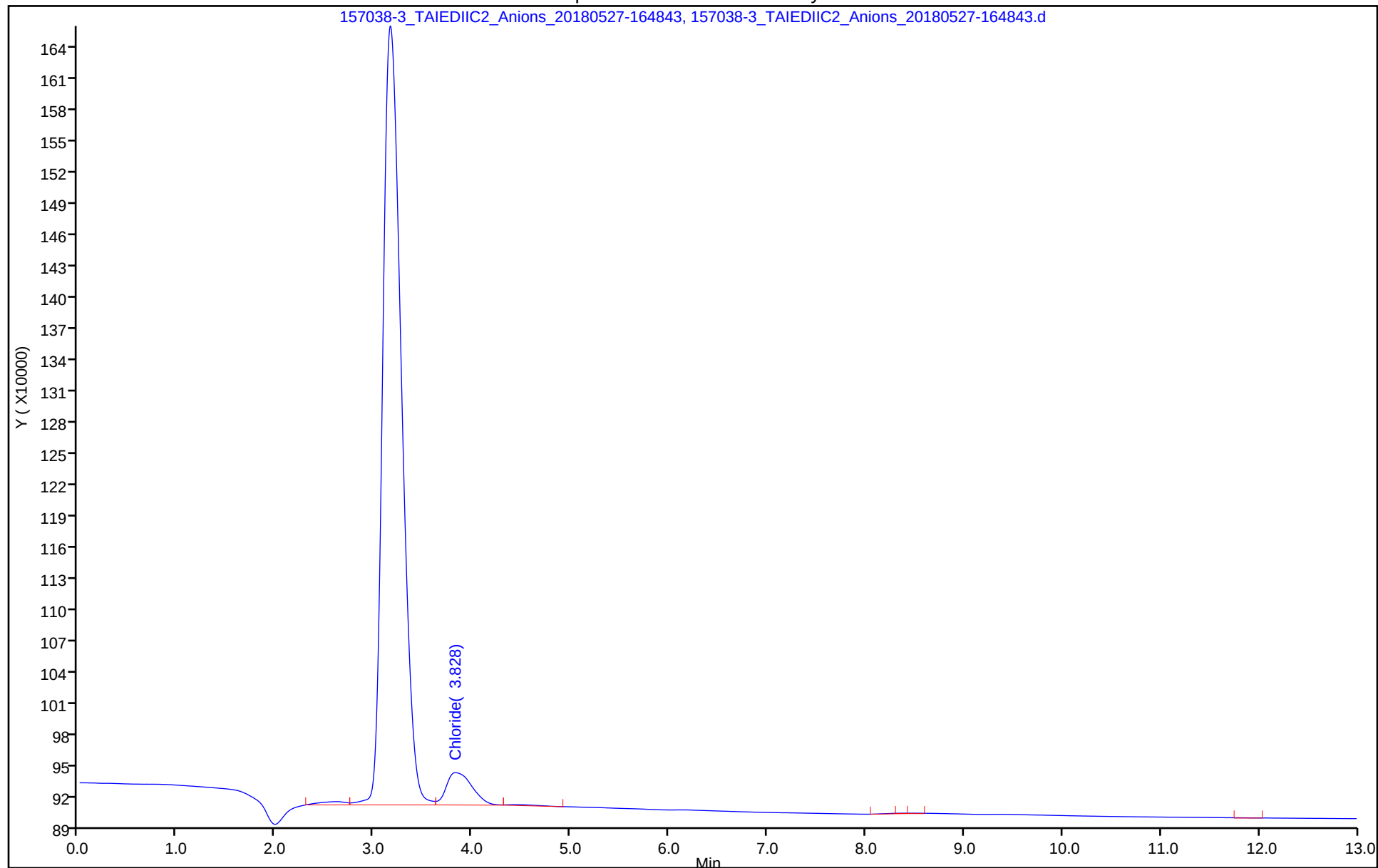
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-FB-20180525 DL Lab Sample ID: 460-157038-3 DL
Matrix: Water Lab File ID: 460-0072739-033_TAIEDIIC2_Anio
Analysis Method: 300.0 Date Collected: 05/25/2018 12:00
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 08:42
Con. Extract Vol.: _____ Dilution Factor: 10
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522878 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.26		1.20	0.78

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\460-0072739-033_TAIEDIIC2_Anions_20180527-0858
Lims ID: 460-157038-G-3
Client ID: NL-FB-20180525
Sample Type: Client
Inject. Date: 27-May-2018 08:42:00 ALS Bottle#: 0 Worklist Smp#: 33
Injection Vol: 10.0 ul Dil. Factor: 10.0000
Sample Info: 460-0072739-033
Misc. Info.: 460-0072739-033
Operator ID: ediic2 Instrument ID: IC 2
Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
Limit Group: SV - Anions 28 days
Last Update: 27-May-2018 11:05:04 Calib Date: 23-May-2018 23:45:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0
Process Host: XAWRK016

First Level Reviewer: zhangyi Date: 27-May-2018 11:03:04

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/ml	Flags
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2 Chloride

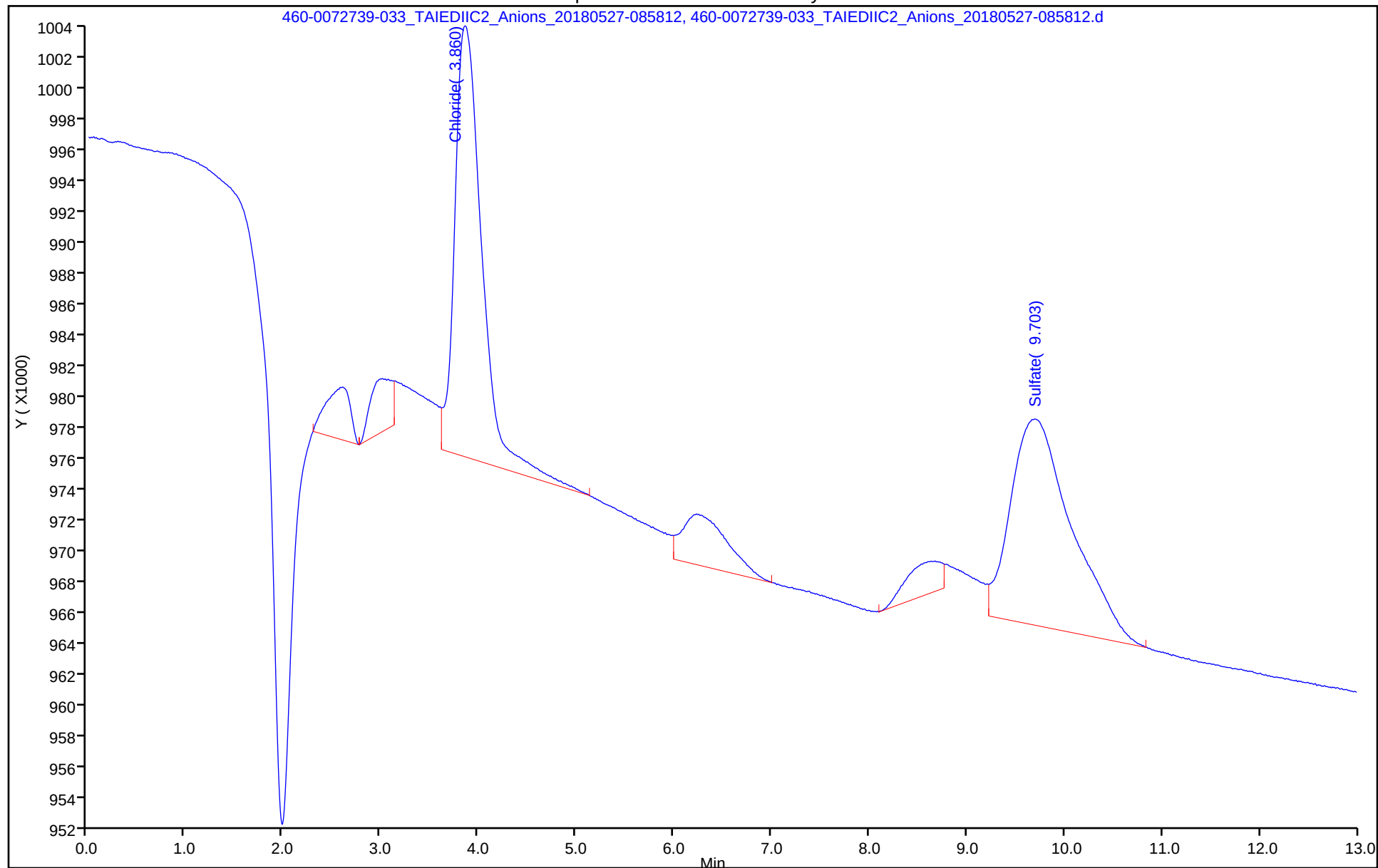
3.860	3.868	-0.008	533532	0.1258
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5 Sulfate

9.703	9.725	-0.022	573181	0.3509
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TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\460-0072739-033_TAIEDIIC2_Anions_20180527-085812.d
Injection Date: 27-May-2018 08:42:00 Instrument ID: IC 2 Operator ID: edlic2
Lims ID: 460-157038-G-3 Lab Sample ID: 460-157038-3 Worklist Smp#: 33
Client ID: NL-FB-20180525
Injection Vol: 10.0 ul Dil. Factor: 10.0000 ALS Bottle#: 0
Method: Anions-ic2 Limit Group: SV - Anions 28 days



FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 521970

SDG No.: _____

Instrument ID: IC 2 GC Column: Metrosep A ID: 4 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2018 22:09 Calibration End Date: 05/23/2018 23:45 Calibration ID: 68779

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-521970/3	Level 2_TAIEDIIC2_Anions_20180523-224118.d
Level 2	IC 460-521970/4	Level 3_TAIEDIIC2_Anions_20180523-225716.d
Level 3	IC 460-521970/5	Level 4_TAIEDIIC2_Anions_20180523-231313.d
Level 4	IC 460-521970/6	Level 5_TAIEDIIC2_Anions_20180524-084259.d
Level 5	IC 460-521970/7	Level 6_TAIEDIIC2_Anions_20180524-084259.d
Level 6	IC 460-521970/8	Level 7_TAIEDIIC2_Anions_20180524-084259.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Fluoride	2.792	2.790	2.788	2.787	2.785	2.788					2.538 - 3.038	2.788
Chloride	3.863	3.862	3.858	3.858	3.853	3.855					3.608 - 4.108	3.858
Bromide	5.537	5.530	5.513	5.507	5.495	5.495					5.263 - 5.763	5.513
Sulfate	9.713	9.708	9.698	9.698	9.687	9.688					9.448 - 9.948	9.699

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 521970

SDG No.: _____

Instrument ID: IC 2 GC Column: Metrosep A ID: 4 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2018 22:09 Calibration End Date: 05/23/2018 23:45 Calibration ID: 68779

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-521970/3	Level 2_TAIEDIIC2_Anions_20180523-224118.d
Level 2	IC 460-521970/4	Level 3_TAIEDIIC2_Anions_20180523-225716.d
Level 3	IC 460-521970/5	Level 4_TAIEDIIC2_Anions_20180523-231313.d
Level 4	IC 460-521970/6	Level 5_TAIEDIIC2_Anions_20180524-084259.d
Level 5	IC 460-521970/7	Level 6_TAIEDIIC2_Anions_20180524-084259.d
Level 6	IC 460-521970/8	Level 7_TAIEDIIC2_Anions_20180524-084259.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
Fluoride	20437150 24542792	22823420 24684836	25637879	24848501	Lin	25877.8375	24683559.1							1.0000		0.9900
Chloride	13321517 13914688	13243517 14241043	12122079	13510616	Lin	-1260714.5	14261559.3							0.9990		0.9900
Bromide	4373873 6124298	5013306 6288642	5370676	5938804	Lin	-2413340.8	6325323.60							0.9990		0.9900
Sulfate	9279467 10980763	10711939 11140029	10107055	10798796	Lin	-3343779.4	11164087.7							0.9990		0.9900

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
HPLC/IC BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-157038-1 Analy Batch No.: 521970

SDG No.: _____

Instrument ID: IC 2 GC Column: Metrosep A ID: 4 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/23/2018 22:09 Calibration End Date: 05/23/2018 23:45 Calibration ID: 68779

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-521970/3	Level 2_TAIEDIIC2_Anions_20180523-224118.d
Level 2	IC 460-521970/4	Level 3_TAIEDIIC2_Anions_20180523-225716.d
Level 3	IC 460-521970/5	Level 4_TAIEDIIC2_Anions_20180523-231313.d
Level 4	IC 460-521970/6	Level 5_TAIEDIIC2_Anions_20180524-084259.d
Level 5	IC 460-521970/7	Level 6_TAIEDIIC2_Anions_20180524-084259.d
Level 6	IC 460-521970/8	Level 7_TAIEDIIC2_Anions_20180524-084259.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Fluoride	Lin	1634972 98739343	4564684	25637879	49697001	73628376	0.0800 4.00	0.200	1.00	2.00	3.00
Chloride	Lin	1598582 85446256	3973055	18183119	40531849	62616096	0.120 6.00	0.300	1.50	3.00	4.50
Bromide	Lin	1749549 125772845	5013306	26853378	59388042	91864468	0.400 20.0	1.00	5.00	10.0	15.0
Sulfate	Lin	5567680 334200865	16067908	75802912	161981946	247067174	0.600 30.0	1.50	7.50	15.0	22.5

Curve Type Legend:

Lin = Linear

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 2_TAIEDIIC2_Anions_20180523-224118.d
 Lims ID: cal2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 23-May-2018 22:25:00 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: Level 2
 Misc. Info.: Level 2
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 24-May-2018 08:49:16 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK025

First Level Reviewer: zhangyi

Date: 24-May-2018 08:47:08

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
7 Fluoride						
2.792	2.788	0.004	1634972	0.0800	0.0652	
2 Chloride						
3.863	3.858	0.005	1598582	0.1200	0.2005	
8 Nitrite as N						
4.512	4.500	0.012	2844903	NC	NC	
1 Bromide						
5.537	5.513	0.024	1749549	0.4000	0.6581	
3 Nitrate as N						
6.292	6.250	0.042	2604125	NC	NC	
9 Orthophosphate as P						
8.508	8.457	0.051	3923301	NC	NC	
5 Sulfate						
9.713	9.698	0.015	5567680	0.6000	0.7982	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONS_L2_00110

Amount Added: 1.00

Units: mL

Report Date: 24-May-2018 08:49:17

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 2_TAIEDIIC2_Anions_20180523-224118.d

Injection Date: 23-May-2018 22:25:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: cal2

Worklist Smp#: 3

Client ID:

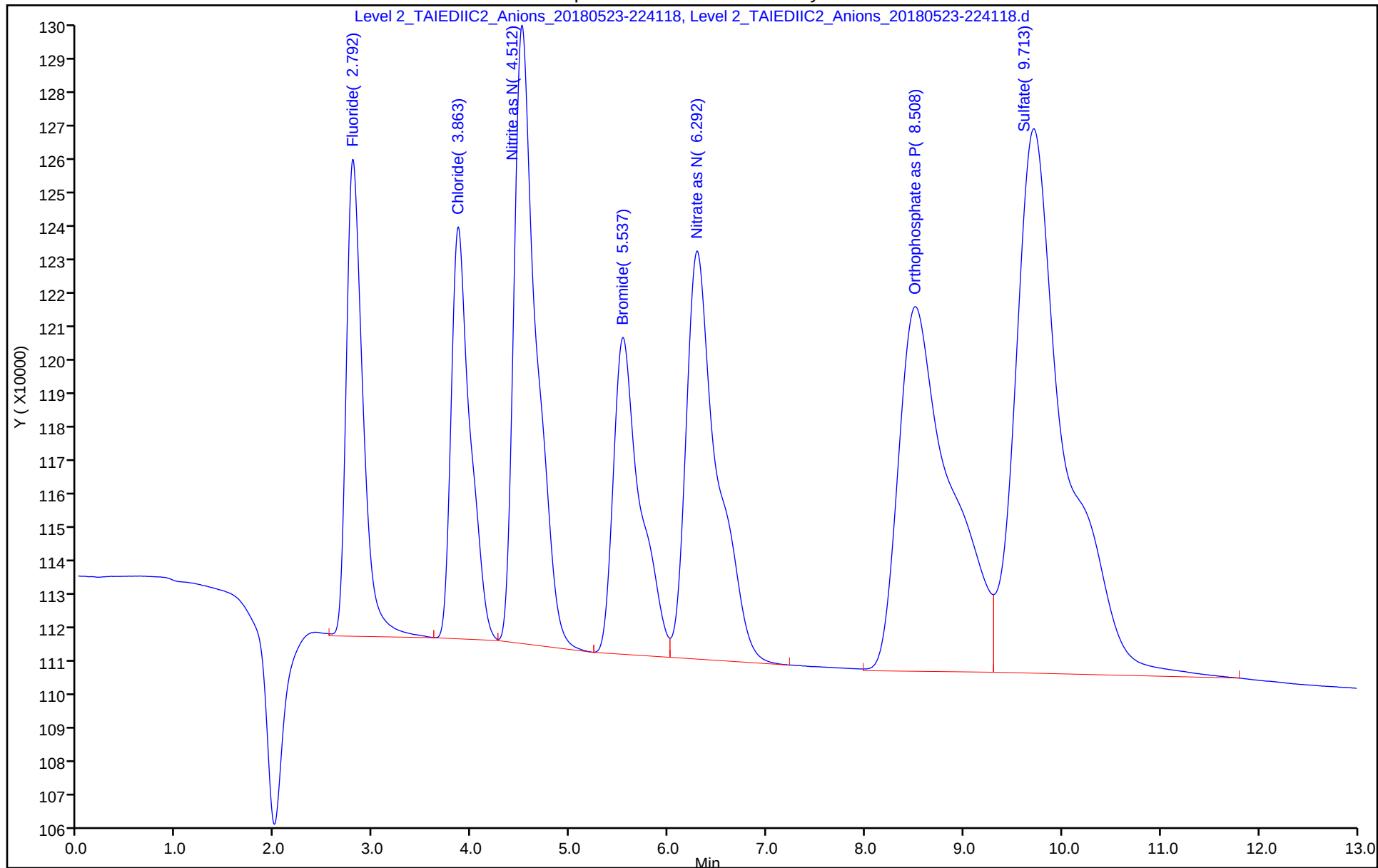
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 3_TAIEDIIC2_Anions_20180523-225716.d
 Lims ID: cal3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 23-May-2018 22:41:00 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: Level 3
 Misc. Info.: Level 3
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 24-May-2018 08:49:18 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK025

First Level Reviewer: infantew

Date: 23-May-2018 23:15:32

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.790 2.788 0.002 4564684 0.2000 0.1839

2 Chloride

3.862 3.858 0.004 3973055 0.3000 0.3670

8 Nitrite as N

4.508 4.500 0.008 8460638 NC NC

1 Bromide

5.530 5.513 0.017 5013306 1.00 1.17

3 Nitrate as N

6.280 6.250 0.030 7397321 NC NC

9 Orthophosphate as P

8.485 8.457 0.028 10353765 NC NC

5 Sulfate

9.708 9.698 0.010 16067908 1.50 1.74

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONSLSL3_00105

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 3_TAIEDIIC2_Anions_20180523-225716.d

Injection Date: 23-May-2018 22:41:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: cal3

Worklist Smp#: 4

Client ID:

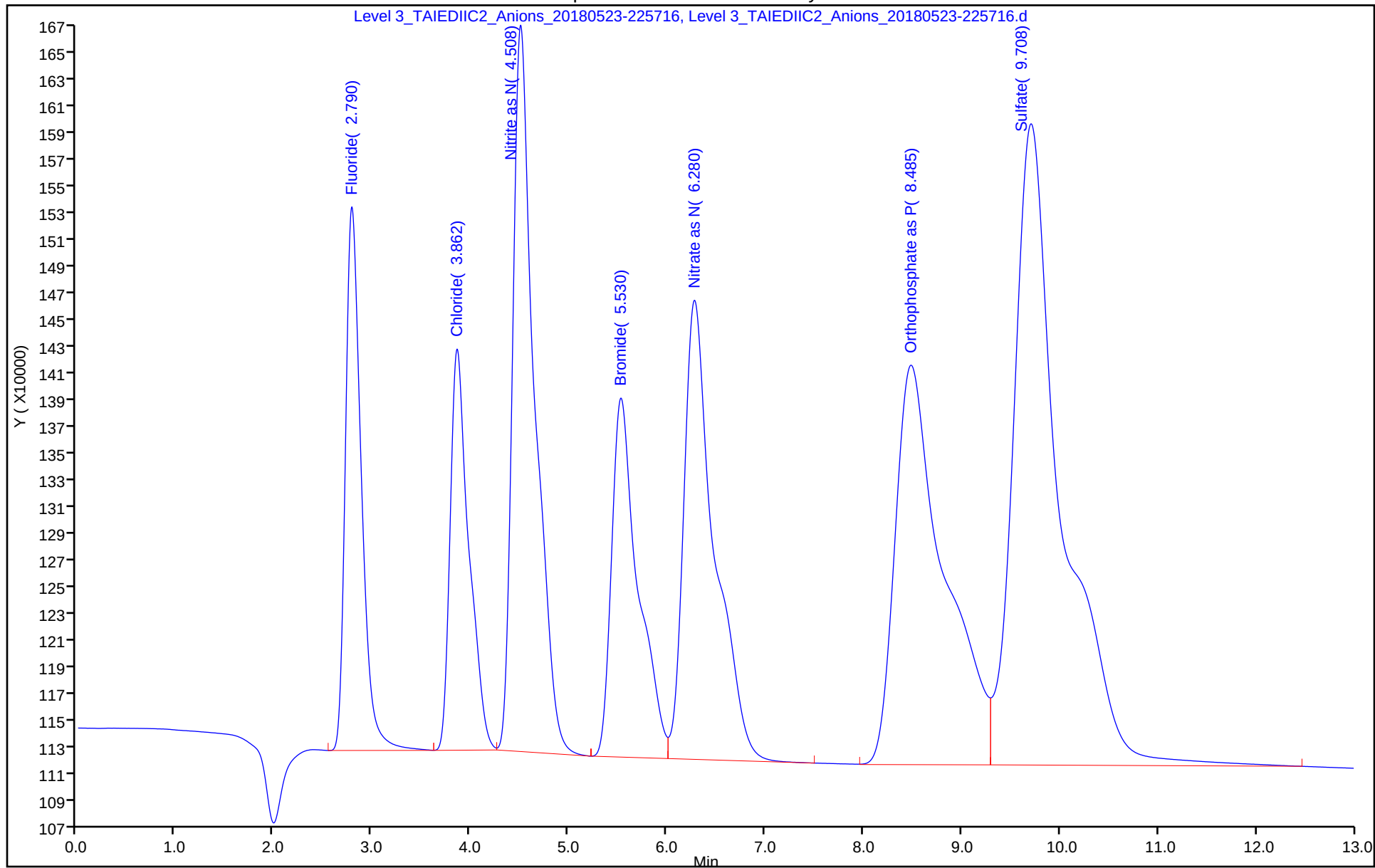
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 4_TAIEDIIC2_Anions_20180523-231313.d
 Lims ID: cal4
 Client ID:
 Sample Type: ICRT Calib Level: 4
 Inject. Date: 23-May-2018 22:57:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: Level 4
 Misc. Info.: Level 4
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 24-May-2018 08:49:18 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK025

First Level Reviewer: infantew

Date: 23-May-2018 23:24:59

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.788 2.788 0.000 25637879 1.00 1.04

2 Chloride

3.858 3.858 0.000 18183119 1.50 1.36

8 Nitrite as N

4.500 4.500 0.000 47032674 NC NC

1 Bromide

5.513 5.513 0.000 26853378 5.00 4.63

3 Nitrate as N

6.250 6.250 0.000 38743651 NC NC

9 Orthophosphate as P

8.457 8.457 0.000 38718540 NC NC

5 Sulfate

9.698 9.698 0.000 75802912 7.50 7.09

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONS_L4_00600

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 4_TAIEDIIC2_Anions_20180523-231313.d

Injection Date: 23-May-2018 22:57:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: cal4

Worklist Smp#: 5

Client ID:

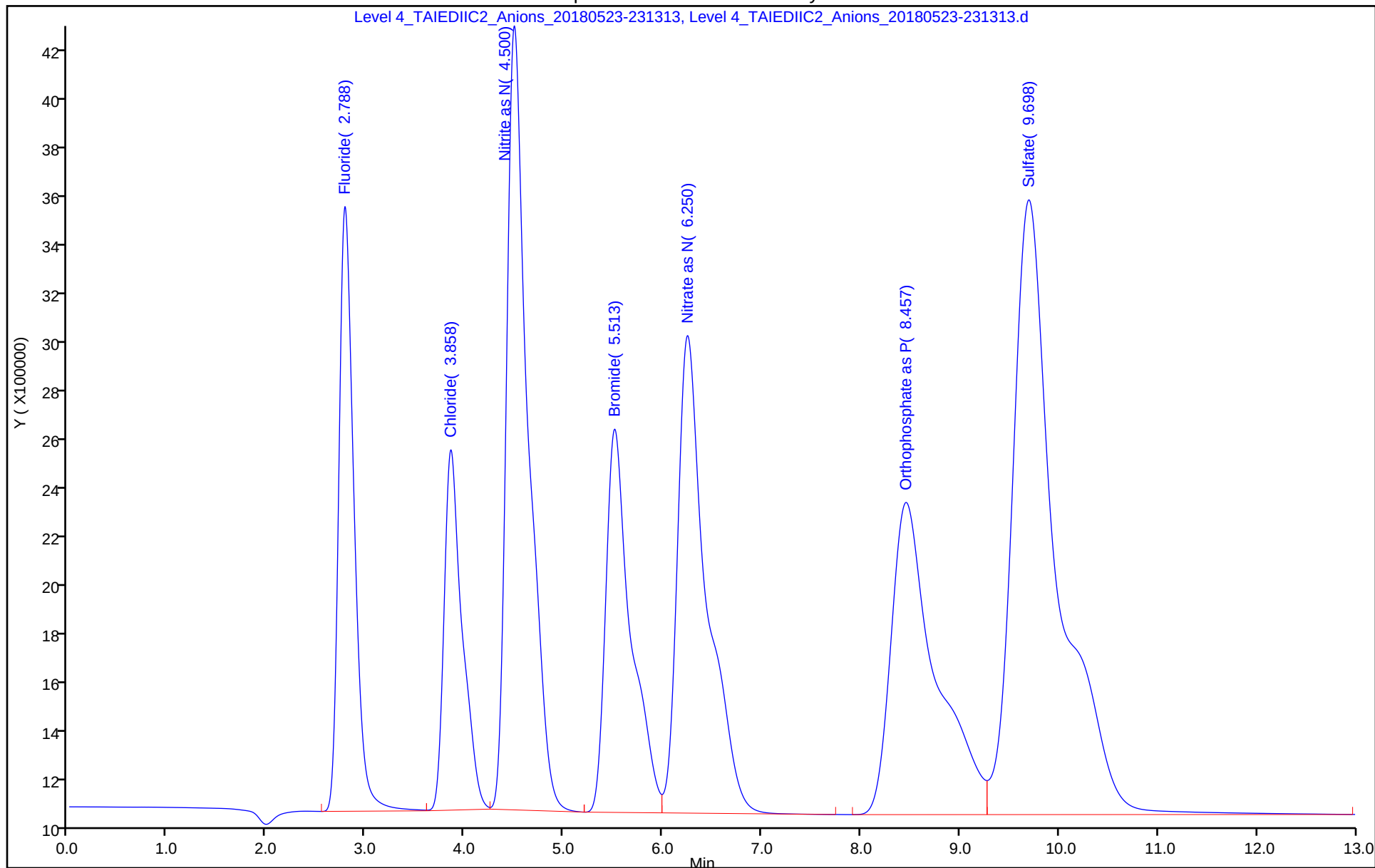
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 5_TAIEDIIC2_Anions_20180524-084259.d
 Lims ID: cal5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 23-May-2018 23:13:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: Level 5
 Misc. Info.: Level 5
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 24-May-2018 08:49:19 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 :

Det: GC IC0

Process Host: XAWRK025

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.787 2.788 -0.001 49697001 2.00 2.01

2 Chloride

3.858 3.858 0.000 40531849 3.00 2.93

8 Nitrite as N

4.493 4.500 -0.007 101427200 NC NC

1 Bromide

5.507 5.513 -0.006 59388042 10.0 9.77

3 Nitrate as N

6.233 6.250 -0.017 85873727 NC NC

9 Orthophosphate as P

8.447 8.457 -0.010 72693116 NC NC

5 Sulfate

9.698 9.698 0.000 161981946 15.0 14.8

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONSLS5_00104

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180523-72565.b\\Level 5_TAIEDIIC2_Anions_20180524-084259.d

Injection Date: 23-May-2018 23:13:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: cal5

Worklist Smp#: 6

Client ID:

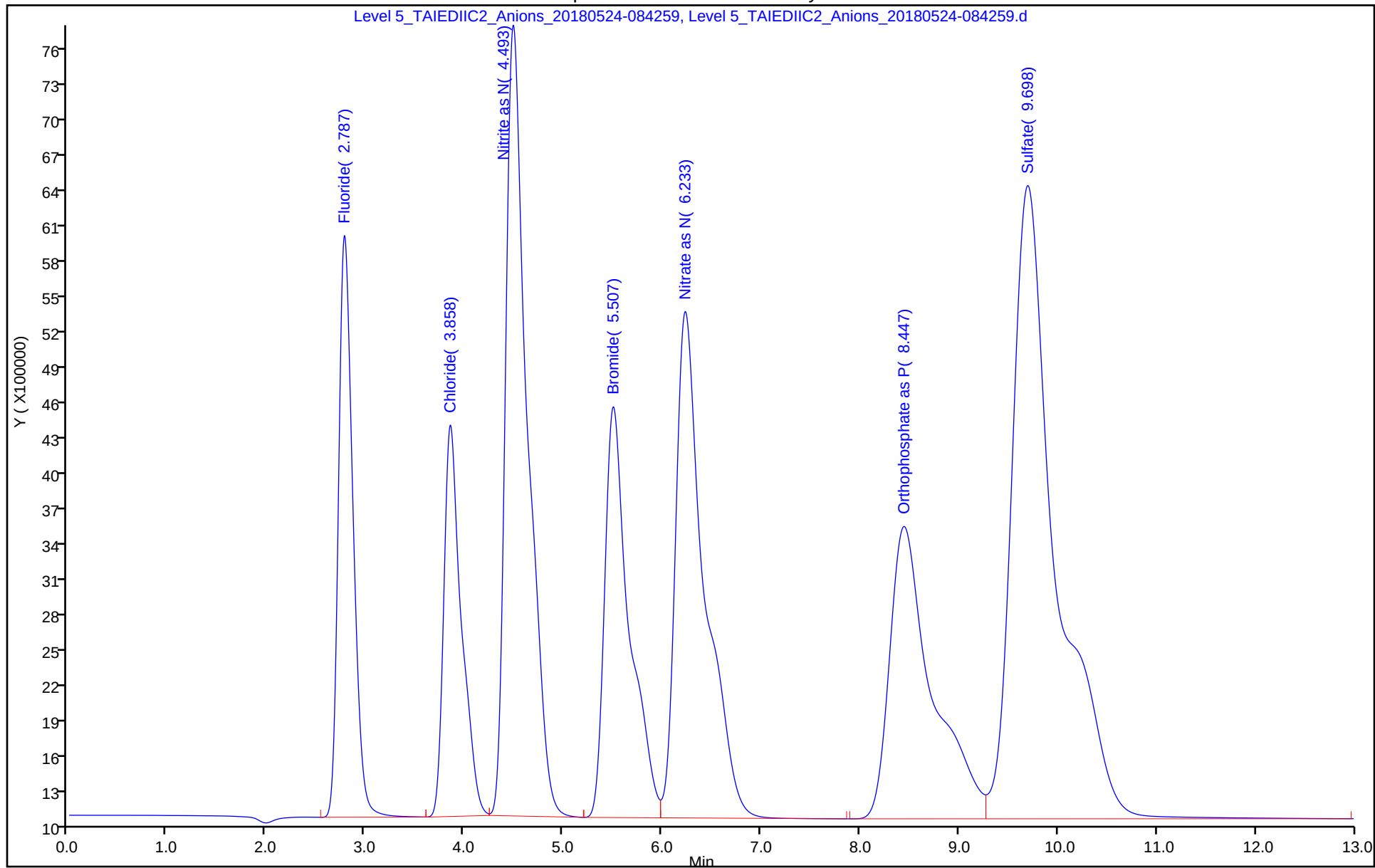
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 6_TAIEDIIC2_Anions_20180524-084259.d
 Lims ID: cal6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 23-May-2018 23:29:00 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: Level 6
 Misc. Info.: Level 6
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 24-May-2018 08:49:20 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 :

Det: GC IC0

Process Host: XAWRK025

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.785 2.788 -0.003 73628376 3.00 2.98

2 Chloride

3.853 3.858 -0.005 62616096 4.50 4.48

8 Nitrite as N

4.487 4.500 -0.013 154954119 NC NC

1 Bromide

5.495 5.513 -0.018 91864468 15.0 14.9

3 Nitrate as N

6.218 6.250 -0.032 132690517 NC NC

9 Orthophosphate as P

8.430 8.457 -0.027 105169728 NC NC

5 Sulfate

9.687 9.698 -0.011 247067174 22.5 22.4

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONS6_00106

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180523-72565.b\\Level 6_TAIEDIIC2_Anions_20180524-084259.d

Injection Date: 23-May-2018 23:29:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: cal6

Worklist Smp#: 7

Client ID:

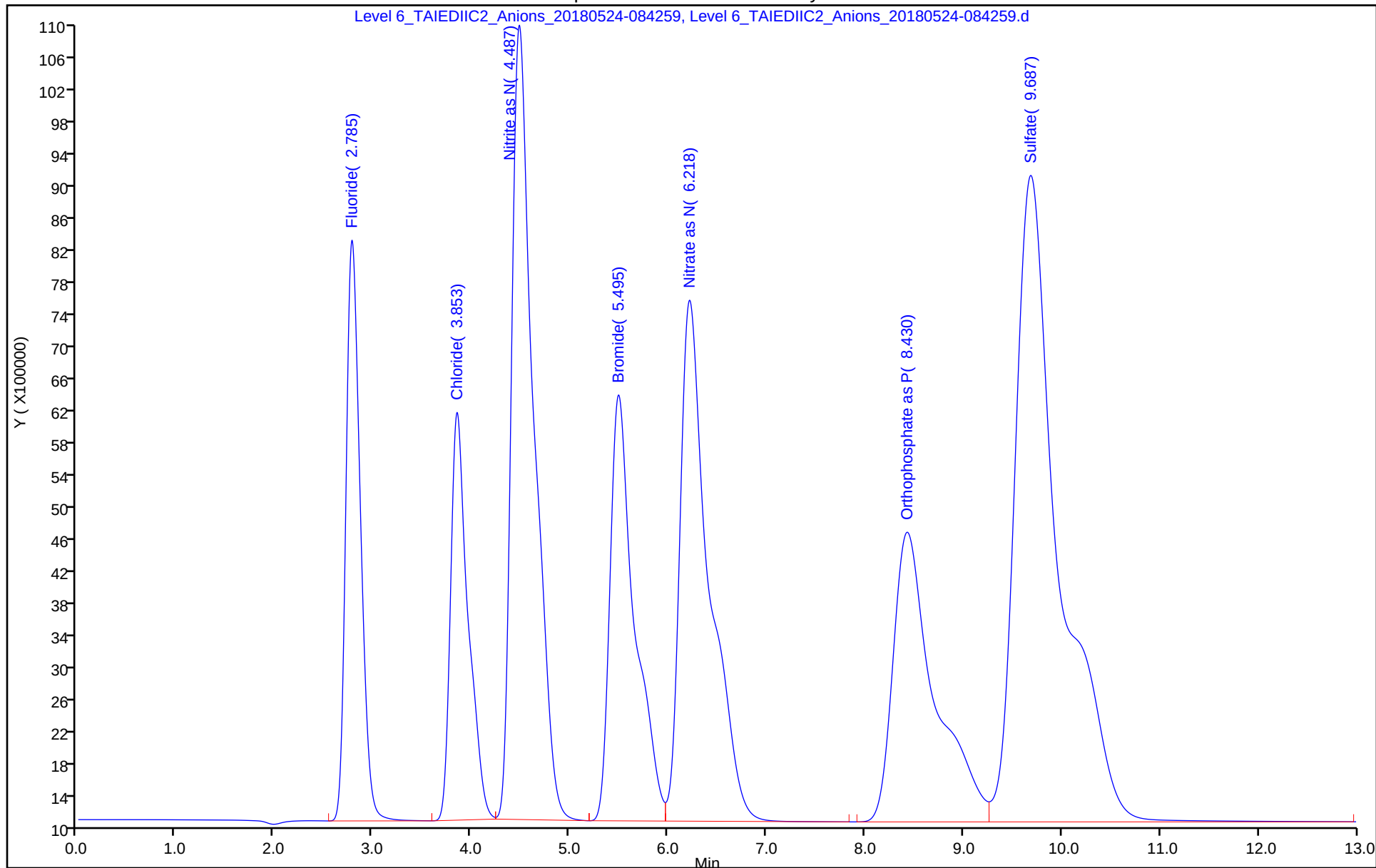
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d
 Lims ID: IC7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 23-May-2018 23:45:00 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: Level 7
 Misc. Info.: Level 7
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 24-May-2018 08:49:21 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK025

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.788 2.788 0.000 98739343 4.00 4.00

2 Chloride

3.855 3.858 -0.003 85446256 6.00 6.08

8 Nitrite as N

4.485 4.500 -0.015 208954289 NC NC

1 Bromide

5.495 5.513 -0.018 125772845 20.0 20.3

3 Nitrate as N

6.212 6.250 -0.038 180714486 NC NC

9 Orthophosphate as P

8.428 8.457 -0.029 140612036 NC NC

5 Sulfate

9.688 9.698 -0.010 334200865 30.0 30.2

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONS7_00106

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Injection Date: 23-May-2018 23:45:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: IC7

Worklist Smp#: 8

Client ID:

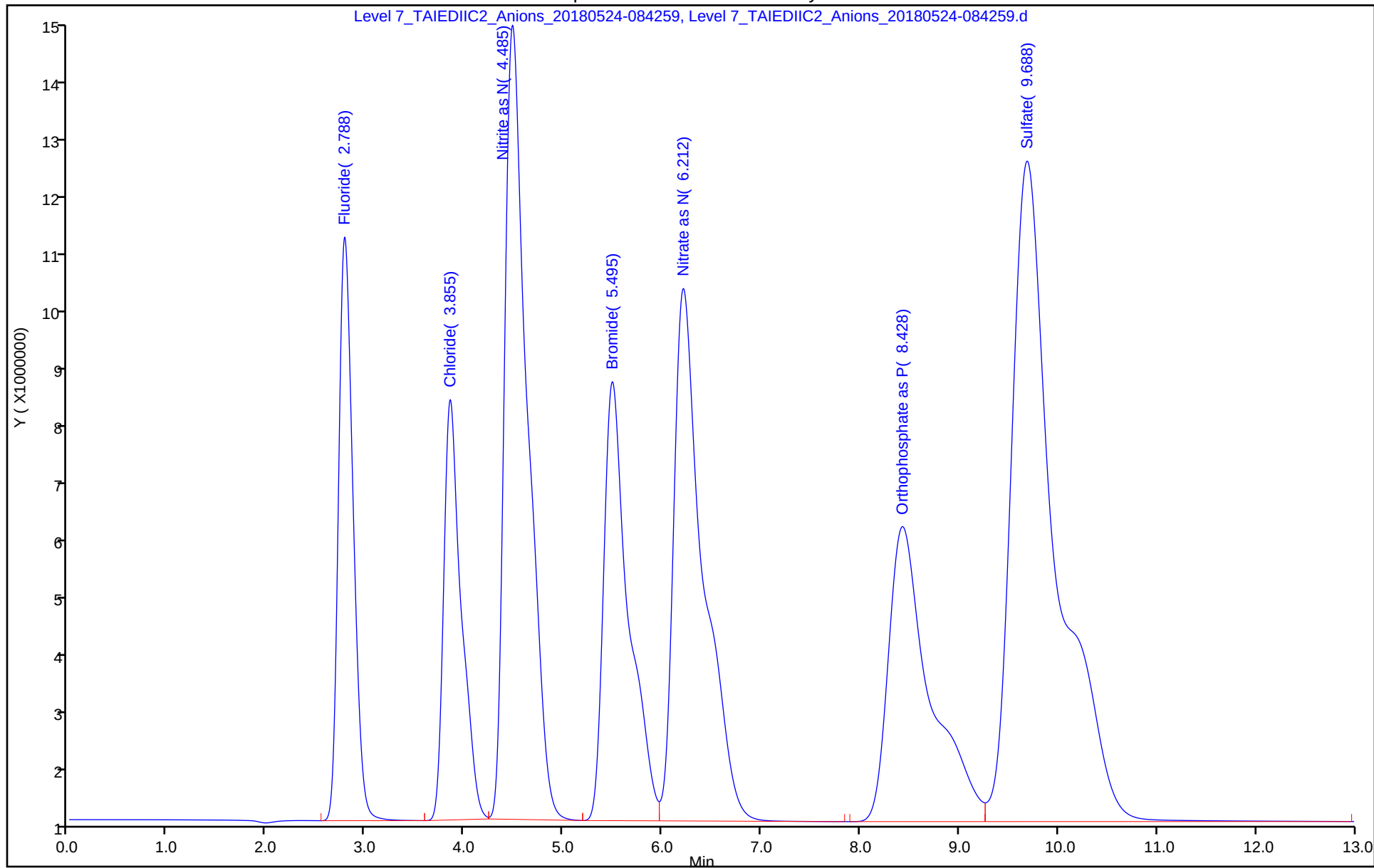
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCVRT 460-522878/1 Calibration Date: 05/26/2018 22:53
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-093 Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		24131636		0.977	1.00	-2.3	10.0
Chloride	Lin		12611392		1.42	1.50	-5.7	10.0
Bromide	Lin		5383382		4.64	5.00	-7.3	10.0
Sulfate	Lin		10312436		7.23	7.50	-3.6	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCVRT 460-522878/1 Calibration Date: 05/26/2018 22:53
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-093

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.79	2.54	3.04
Chloride	3.87	3.62	4.12
Bromide	5.52	5.27	5.77
Sulfate	9.73	9.48	9.98

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\CCV_TAIEDIIC2_Anions_20180527-093849.d
 Lims ID: CCVRT
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 26-May-2018 22:53:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCV
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 11:04:26 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.792 2.792 0.000 24131636 1.00 0.9766

2 Chloride

3.868 3.868 0.000 18917088 1.50 1.41

8 Nitrite as N

4.515 4.515 0.000 48490720 NC NC

1 Bromide

5.518 5.518 0.000 26916909 5.00 4.64

3 Nitrate as N

6.257 6.257 0.000 39435923 NC NC

9 Orthophosphate as P

8.487 8.487 0.000 34611515 NC NC

5 Sulfate

9.725 9.725 0.000 77343271 7.50 7.23

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONS4_00601

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180526-72739.b\\CCV_TAIEDIIC2_Anions_20180527-093849.d

Injection Date: 26-May-2018 22:53:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: CCVRT

Worklist Smp#: 1

Client ID:

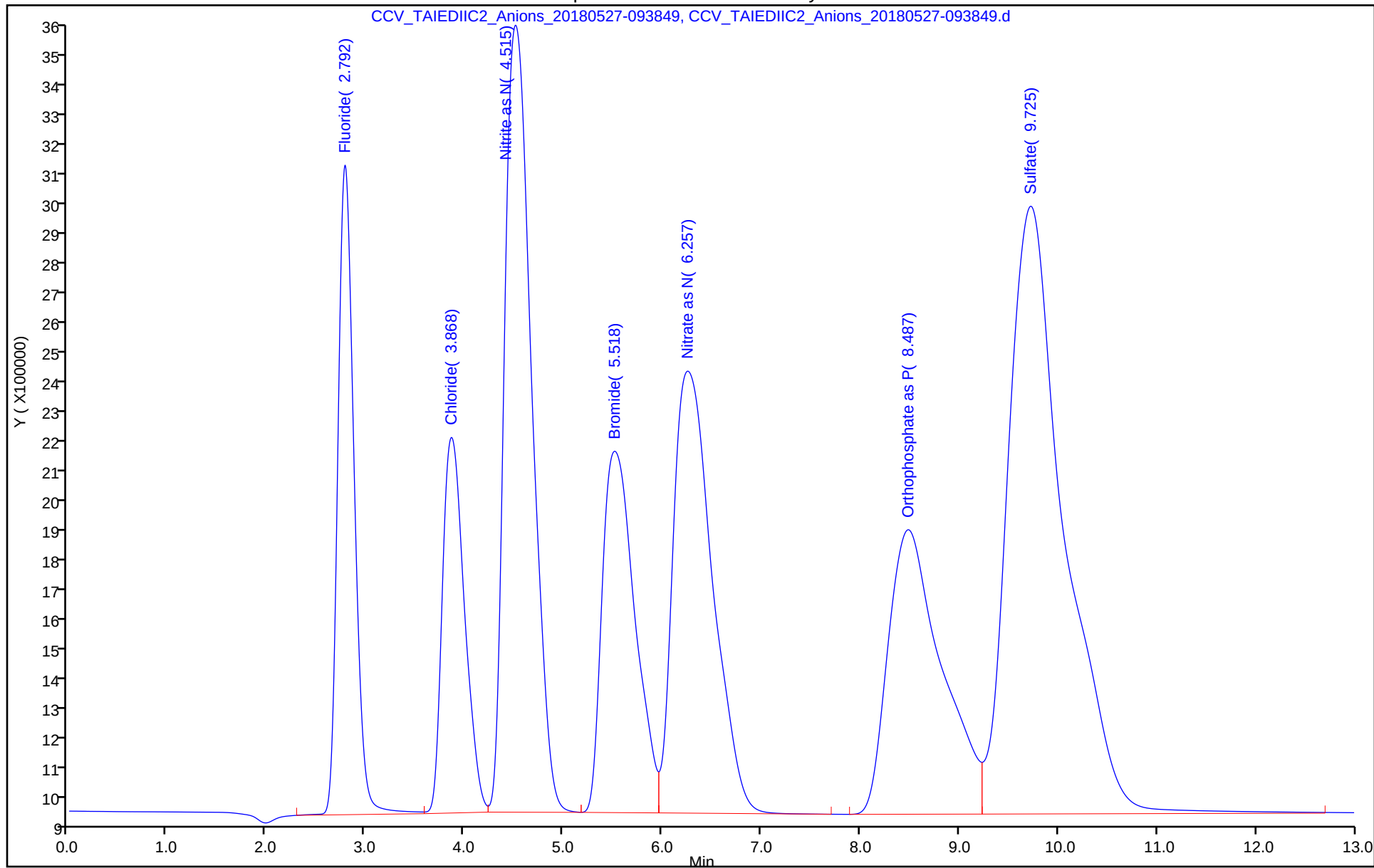
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522878/13 Calibration Date: 05/27/2018 02:42
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-030 Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		23582013		0.954	1.00	-4.6	10.0
Chloride	Lin		12623255		1.42	1.50	-5.6	10.0
Bromide	Lin		5370565		4.63	5.00	-7.5	10.0
Sulfate	Lin		10302837		7.22	7.50	-3.7	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522878/13 Calibration Date: 05/27/2018 02:42
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-030

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.79	2.54	3.04
Chloride	3.86	3.62	4.12
Bromide	5.51	5.27	5.77
Sulfate	9.71	9.48	9.98

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\CCV_TAIEDIIC2_Anions_20180527-030246.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-May-2018 02:42:00 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCV
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 13:42:35 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

First Level Reviewer: zhangyi

Date: 27-May-2018 09:46:44

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.788 2.792 -0.004 23582013 1.00 0.9543

2 Chloride

3.862 3.868 -0.006 18934883 1.50 1.42

8 Nitrite as N

4.508 4.515 -0.007 48424297 NC NC

1 Bromide

5.507 5.518 -0.011 26852826 5.00 4.63

3 Nitrate as N

6.243 6.257 -0.014 39377204 NC NC

9 Orthophosphate as P

8.475 8.487 -0.012 33606875 NC NC

5 Sulfate

9.713 9.725 -0.012 77271275 7.50 7.22

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONSL4_00602

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\CCV_TAIEDIIC2_Anions_20180527-030246.d

Injection Date: 27-May-2018 02:42:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: CCV

Worklist Smp#: 13

Client ID:

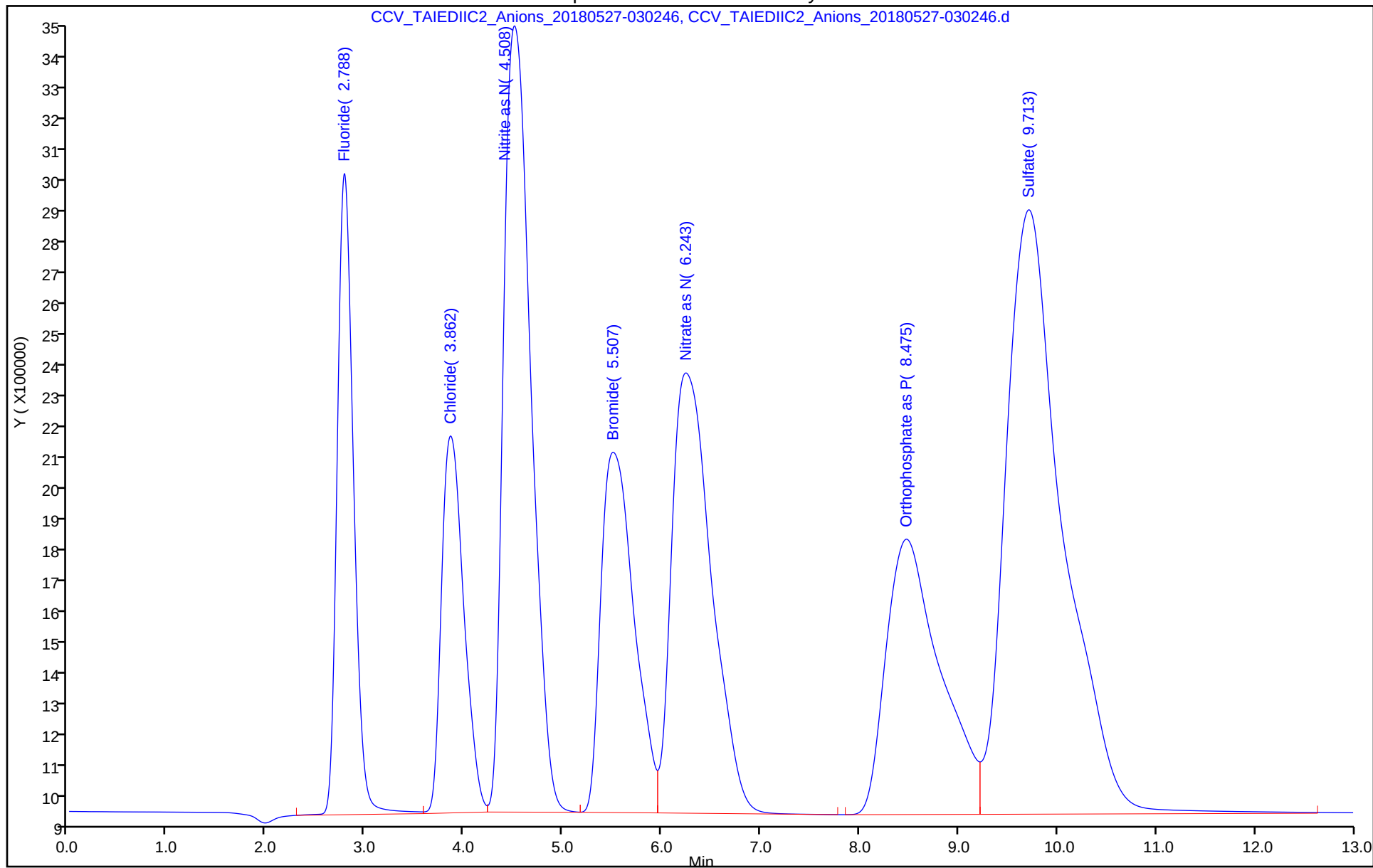
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522878/25 Calibration Date: 05/27/2018 06:14
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-063 Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		23534472		0.952	1.00	-4.8	10.0
Chloride	Lin		12595405		1.41	1.50	-5.8	10.0
Bromide	Lin		5346591		4.61	5.00	-7.8	10.0
Sulfate	Lin		10260615		7.19	7.50	-4.1	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522878/25 Calibration Date: 05/27/2018 06:14
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-063

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.79	2.54	3.04
Chloride	3.86	3.62	4.12
Bromide	5.51	5.27	5.77
Sulfate	9.72	9.48	9.98

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\CCV_TAIEDIIC2_Anions_20180527-063504.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-May-2018 06:14:00 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCV
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 13:42:34 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

7 Fluoride

2.788 2.792 -0.004 23534472 1.00 0.9524

2 Chloride

3.863 3.868 -0.005 18893108 1.50 1.41

8 Nitrite as N

4.510 4.515 -0.005 48287286 NC NC

1 Bromide

5.507 5.518 -0.011 26732957 5.00 4.61

3 Nitrate as N

6.242 6.257 -0.015 39291417 NC NC

9 Orthophosphate as P

8.475 8.487 -0.012 33320740 NC NC

5 Sulfate

9.715 9.725 -0.010 76954615 7.50 7.19

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONS4_00602

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\CCV_TAIEDIIC2_Anions_20180527-063504.d

Injection Date: 27-May-2018 06:14:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: CCV

Worklist Smp#: 25

Client ID:

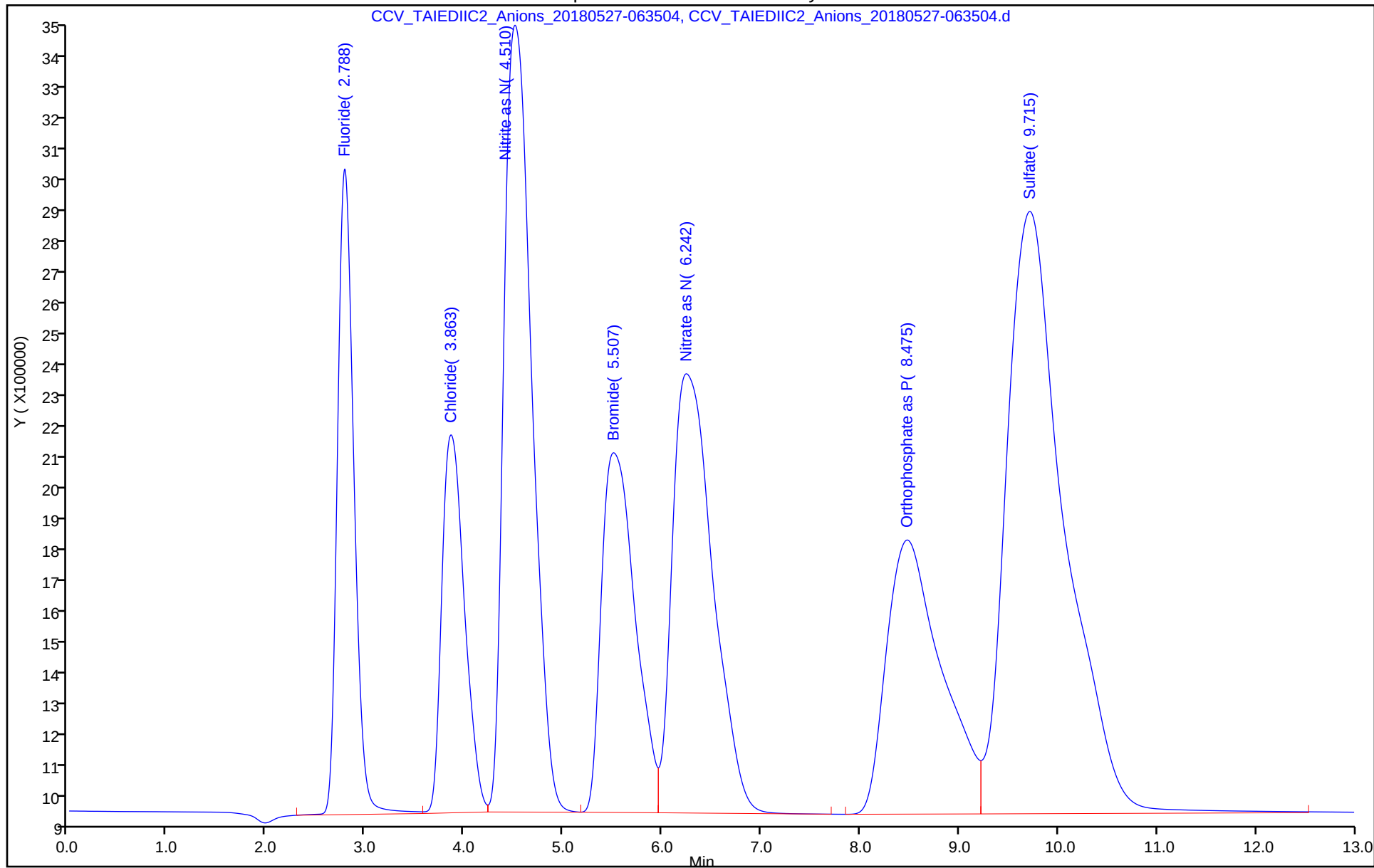
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522878/35 Calibration Date: 05/27/2018 09:14
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-093 Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		23759268		0.962	1.00	-3.8	10.0
Chloride	Lin		12807525		1.44	1.50	-4.3	10.0
Bromide	Lin		5369213		4.63	5.00	-7.5	10.0
Sulfate	Lin		10392155		7.28	7.50	-2.9	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522878/35 Calibration Date: 05/27/2018 09:14
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-093

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.79	2.54	3.04
Chloride	3.86	3.62	4.12
Bromide	5.50	5.27	5.77
Sulfate	9.72	9.48	9.98

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\CCV_TAIEDIIC2_Anions_20180527-093440.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-May-2018 09:14:00 ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCV
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 13:42:32 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

First Level Reviewer: zhangyi

Date: 27-May-2018 11:04:07

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

7 Fluoride

2.788 2.792 -0.004 23759268 1.00 0.9615

2 Chloride

3.862 3.868 -0.006 19211287 1.50 1.44

8 Nitrite as N

4.508 4.515 -0.007 48607227 NC NC

1 Bromide

5.502 5.518 -0.016 26846063 5.00 4.63

3 Nitrate as N

6.237 6.257 -0.020 39408858 NC NC

9 Orthophosphate as P

8.473 8.487 -0.014 32315910 NC NC

5 Sulfate

9.715 9.725 -0.010 77941161 7.50 7.28

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONSL4_00602

Amount Added: 1.00

Units: mL

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\CCV_TAIEDIIC2_Anions_20180527-110535.d
 Lims ID: CCVRT
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 27-May-2018 09:14:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCV
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 22:07:18 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 :

Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

7 Fluoride

2.788 2.788 0.000 23759268 1.00 0.9615

2 Chloride

3.862 3.862 0.000 19211287 1.50 1.44

8 Nitrite as N

4.508 4.508 0.000 48607227 NC NC

1 Bromide

5.502 5.502 0.000 26846063 5.00 4.63

3 Nitrate as N

6.237 6.237 0.000 39408858 NC NC

9 Orthophosphate as P

8.473 8.473 0.000 32315910 NC NC

5 Sulfate

9.715 9.715 0.000 77941161 7.50 7.28

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONS4_00602

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\CCV_TAIEDIIC2_Anions_20180527-110535.d

Injection Date: 27-May-2018 09:14:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: CCVRT

Worklist Smp#: 1

Client ID:

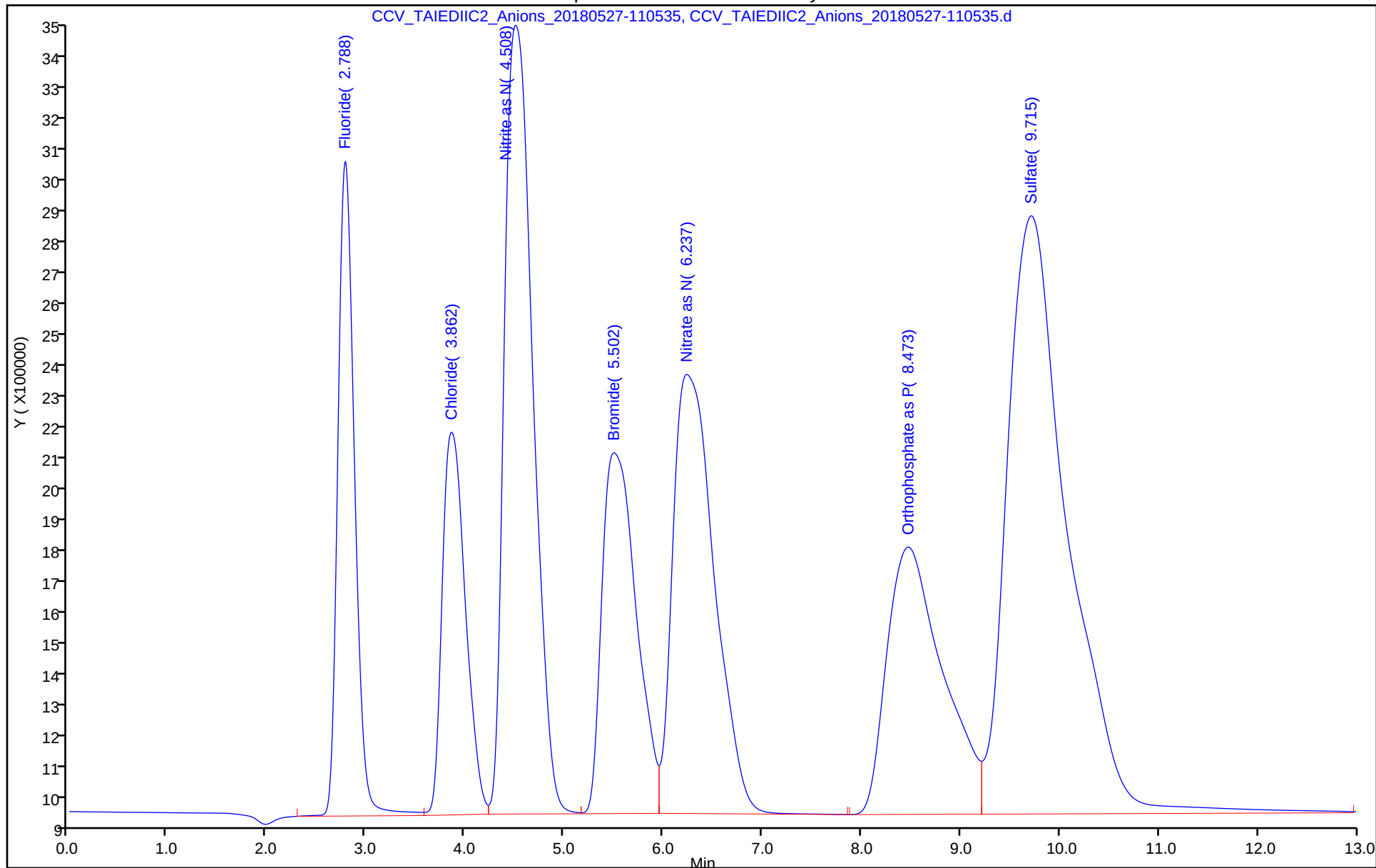
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180526-72739.b\\CCV_TAIEDIIC2_Anions_20180527-093440.d

Injection Date: 27-May-2018 09:14:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: CCV

Worklist Smp#: 35

Client ID:

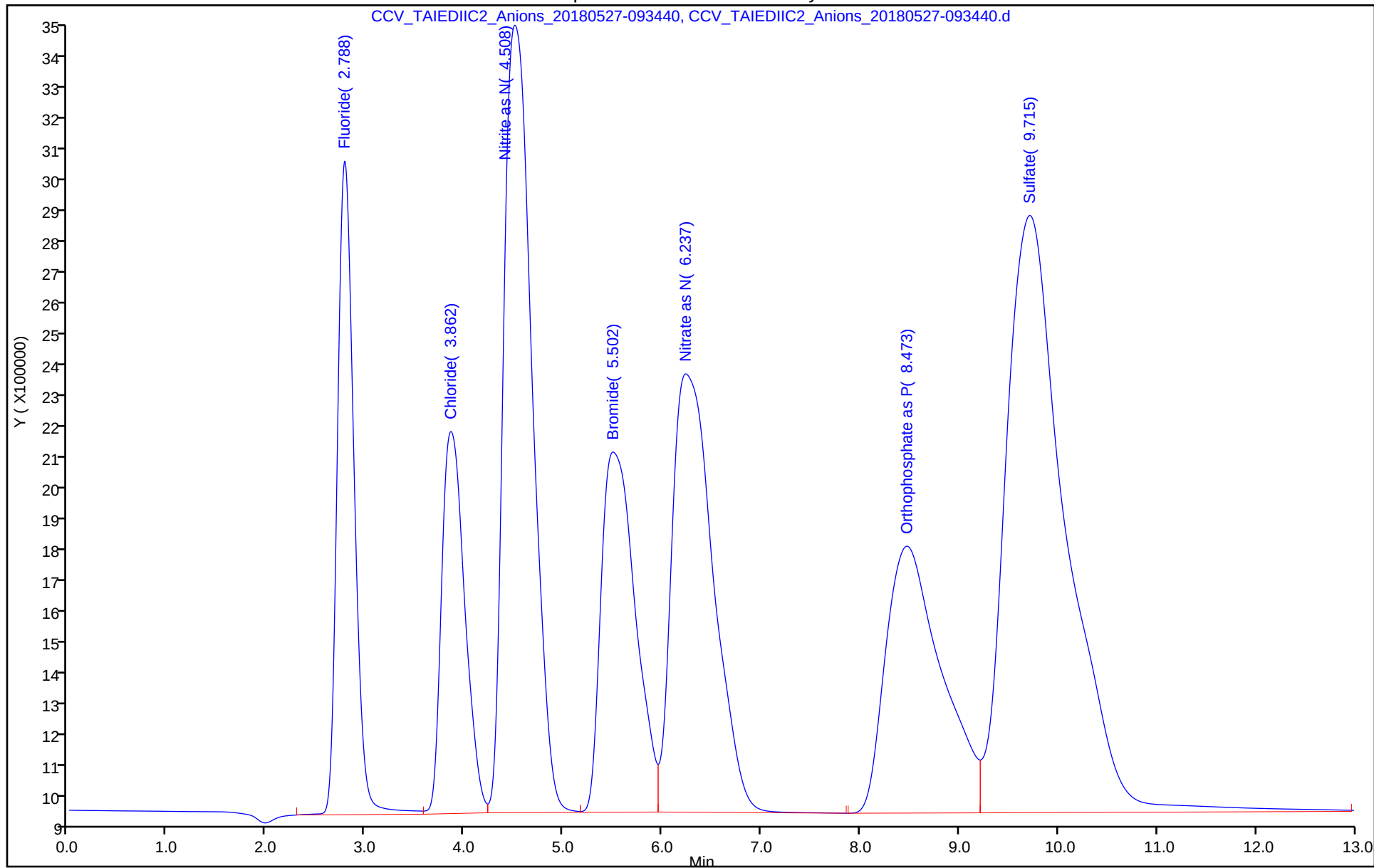
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCVRT 460-522969/1 Calibration Date: 05/27/2018 09:14
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-110 Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		23759268		0.962	1.00	-3.8	10.0
Chloride	Lin		12807525		1.44	1.50	-4.3	10.0
Bromide	Lin		5369213		4.63	5.00	-7.5	10.0
Sulfate	Lin		10392155		7.28	7.50	-2.9	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCVRT 460-522969/1 Calibration Date: 05/27/2018 09:14
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-110

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.79	2.54	3.04
Chloride	3.86	3.61	4.11
Bromide	5.50	5.25	5.75
Sulfate	9.72	9.47	9.97

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\CCV_TAIEDIIC2_Anions_20180527-093440.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-May-2018 09:14:00 ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCV
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 13:42:32 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

First Level Reviewer: zhangyi

Date: 27-May-2018 11:04:07

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
7 Fluoride						
2.788	2.792	-0.004	23759268	1.00	0.9615	
2 Chloride						
3.862	3.868	-0.006	19211287	1.50	1.44	
8 Nitrite as N						
4.508	4.515	-0.007	48607227	NC	NC	
1 Bromide						
5.502	5.518	-0.016	26846063	5.00	4.63	
3 Nitrate as N						
6.237	6.257	-0.020	39408858	NC	NC	
9 Orthophosphate as P						
8.473	8.487	-0.014	32315910	NC	NC	
5 Sulfate						
9.715	9.725	-0.010	77941161	7.50	7.28	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONSL4_00602

Amount Added: 1.00

Units: mL

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\CCV_TAIEDIIC2_Anions_20180527-110535.d
 Lims ID: CCVRT
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 27-May-2018 09:14:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCV
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 22:07:18 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 :

Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

7 Fluoride

2.788 2.788 0.000 23759268 1.00 0.9615

2 Chloride

3.862 3.862 0.000 19211287 1.50 1.44

8 Nitrite as N

4.508 4.508 0.000 48607227 NC NC

1 Bromide

5.502 5.502 0.000 26846063 5.00 4.63

3 Nitrate as N

6.237 6.237 0.000 39408858 NC NC

9 Orthophosphate as P

8.473 8.473 0.000 32315910 NC NC

5 Sulfate

9.715 9.715 0.000 77941161 7.50 7.28

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONS4_00602

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180527-72762.b\\CCV_TAIEDIIC2_Anions_20180527-110535.d

Injection Date: 27-May-2018 09:14:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: CCVRT

Worklist Smp#: 1

Client ID:

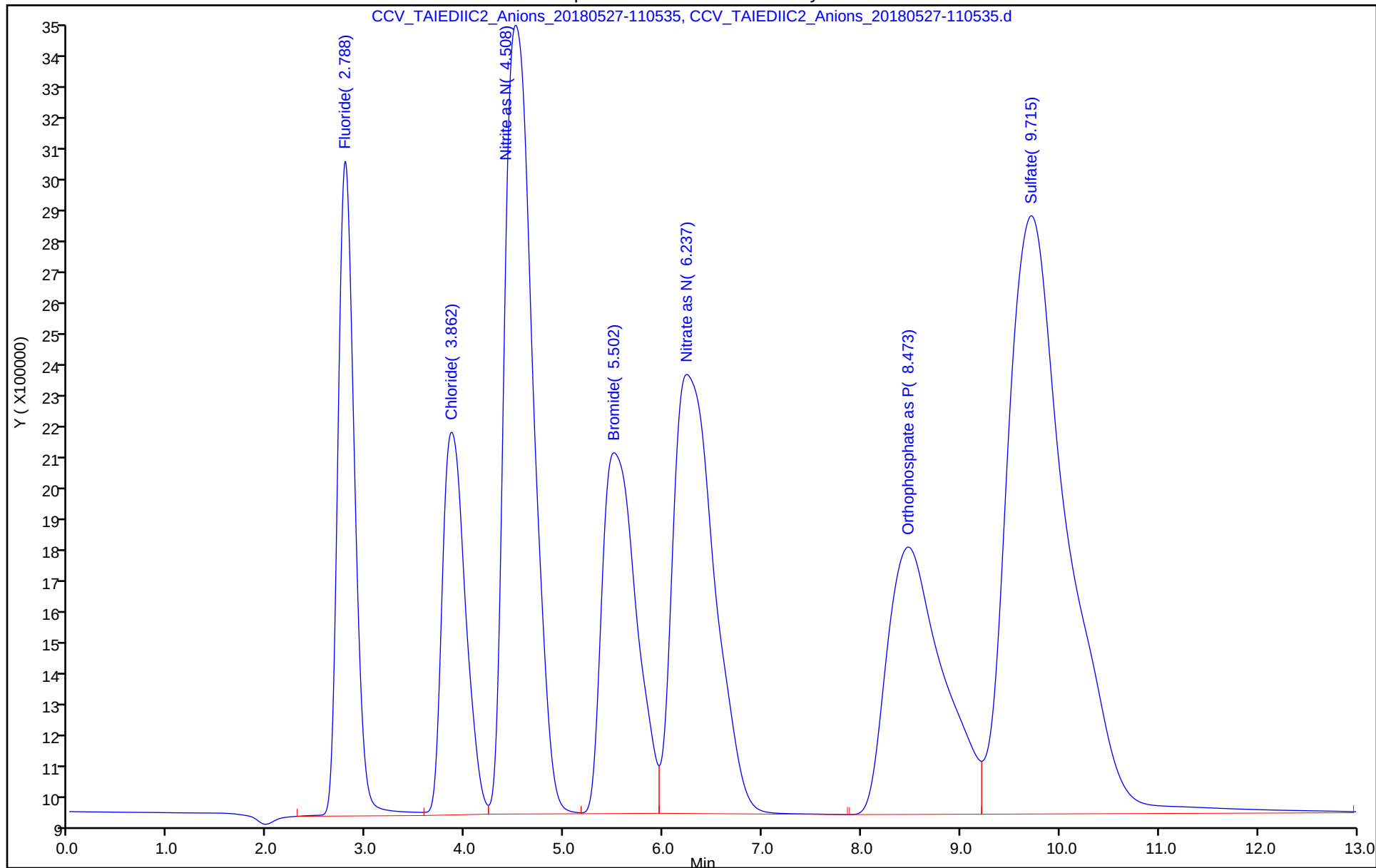
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\CCV_TAIEDIIC2_Anions_20180527-093440.d

Injection Date: 27-May-2018 09:14:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: CCV

Worklist Smp#: 35

Client ID:

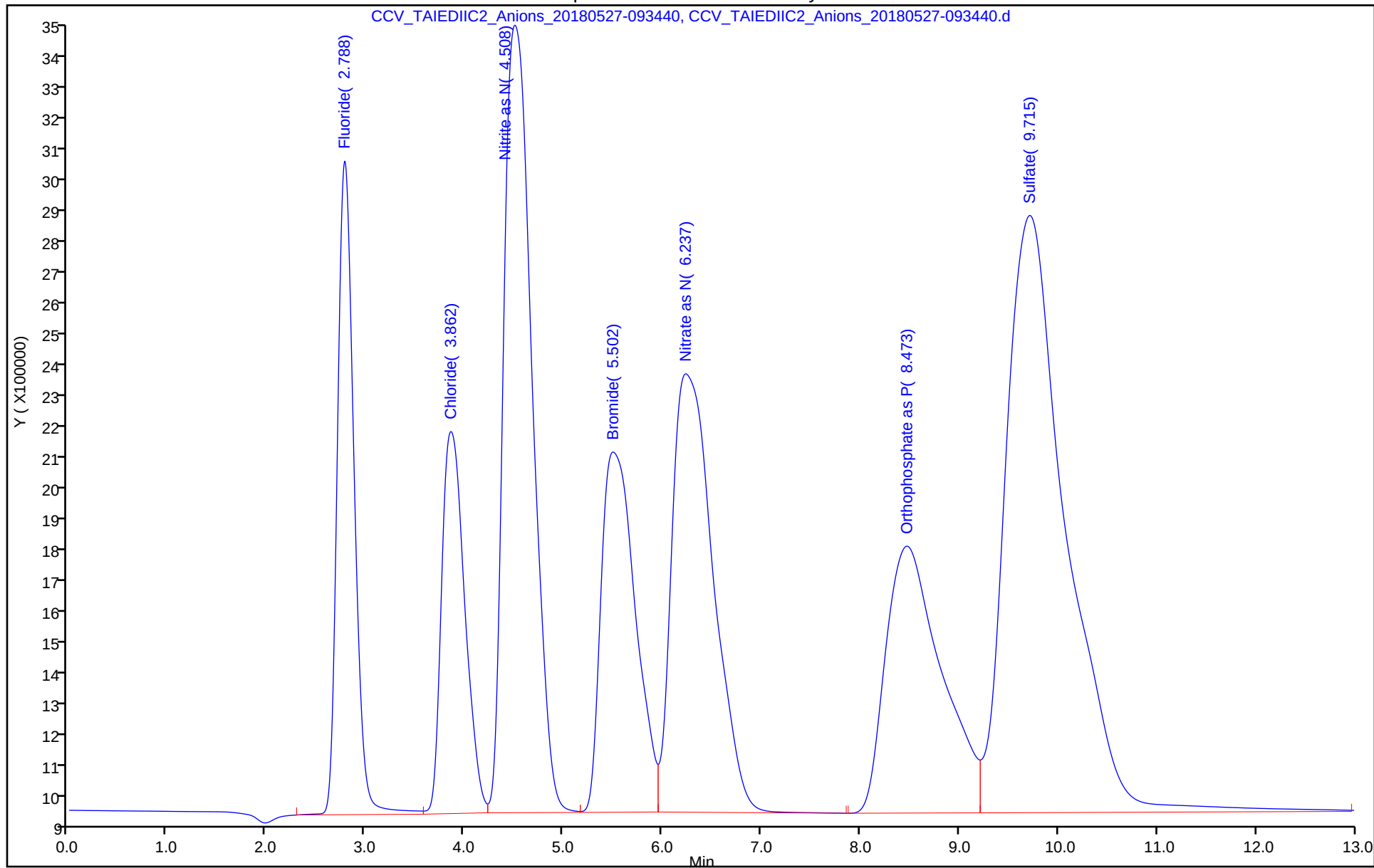
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522969/13 Calibration Date: 05/27/2018 13:14
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-133 Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		24413337		0.988	1.00	-1.2	10.0
Chloride	Lin		12738958		1.43	1.50	-4.8	10.0
Bromide	Lin		5364775		4.62	5.00	-7.6	10.0
Sulfate	Lin		10267666		7.20	7.50	-4.0	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522969/13 Calibration Date: 05/27/2018 13:14
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-133

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.79	2.54	3.04
Chloride	3.85	3.61	4.11
Bromide	5.47	5.25	5.75
Sulfate	9.67	9.47	9.97

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\CCV_TAIEDIIC2_Anions_20180527-133529.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-May-2018 13:14:00 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCV
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 22:07:31 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

7 Fluoride

2.787 2.788 -0.001 24413337 1.00 0.9880

2 Chloride

3.848 3.862 -0.014 19108437 1.50 1.43

8 Nitrite as N

4.488 4.508 -0.020 48559554 NC NC

1 Bromide

5.470 5.502 -0.032 26823873 5.00 4.62

3 Nitrate as N

6.198 6.237 -0.039 39337905 NC NC

9 Orthophosphate as P

8.445 8.473 -0.028 34312520 NC NC

5 Sulfate

9.670 9.715 -0.045 77007496 7.50 7.20

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONS4_00602

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180527-72762.b\\CCV_TAIEDIIC2_Anions_20180527-133529.d

Injection Date: 27-May-2018 13:14:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: CCV

Worklist Smp#: 13

Client ID:

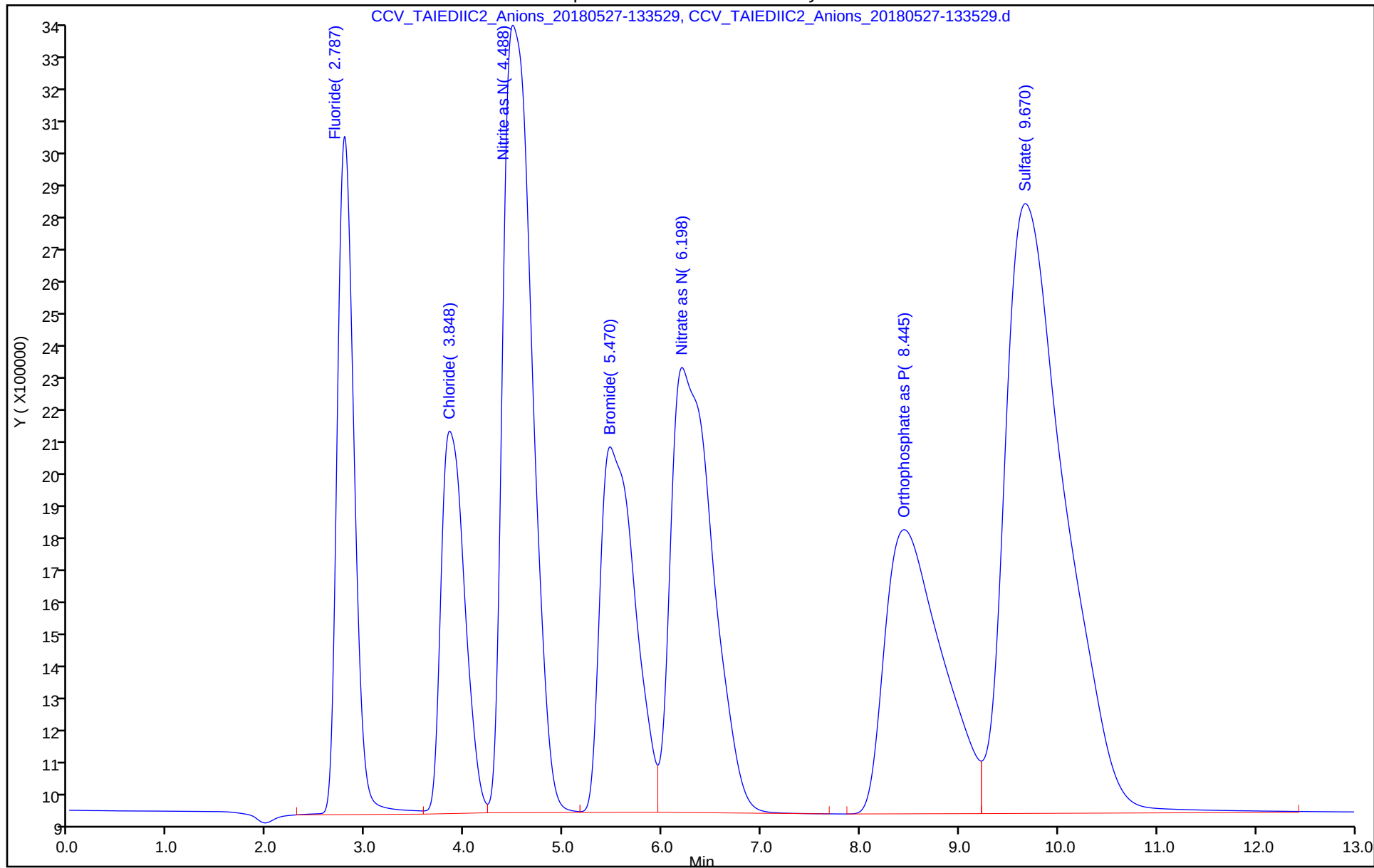
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM VII
HPLC/IC CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522969/25 Calibration Date: 05/27/2018 16:48
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-170 Conc. Units: mg/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Fluoride	Lin		26998345		1.09	1.00	9.3	10.0
Chloride	Lin		12527087		1.41	1.50	-6.3	10.0
Bromide	Lin		5295544		4.57	5.00	-8.6	10.0
Sulfate	Lin		10285271		7.21	7.50	-3.9	10.0

FORM VII
HPLC/IC CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Lab Sample ID: CCV 460-522969/25 Calibration Date: 05/27/2018 16:48
Instrument ID: IC 2 Calib Start Date: 05/23/2018 22:09
GC Column: Metrosep A ID: 4.00 (mm) Calib End Date: 05/23/2018 23:45
Lab File ID: CCV_TAIEDIIC2_Anions_20180527-170

Analyte	RT	RT WINDOW	
		FROM	TO
Fluoride	2.78	2.54	3.04
Chloride	3.82	3.61	4.11
Bromide	5.43	5.25	5.75
Sulfate	9.47	9.47	9.97

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\CCV_TAIEDIIC2_Anions_20180527-170926.d
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-May-2018 16:48:00 ALS Bottle#: 0 Worklist Smp#: 25
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: CCV
 Misc. Info.: CCV
 Operator ID: ediic2 Instrument ID: IC 2
 Sublist: chrom-Anions-ic2*sub1
 Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 22:07:39 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

First Level Reviewer: zhangyi

Date: 27-May-2018 18:12:11

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

7 Fluoride

2.778 2.788 -0.010 26998345 1.00 1.09

2 Chloride

3.822 3.862 -0.040 18790630 1.50 1.41

8 Nitrite as N

4.455 4.508 -0.053 48067334 NC NC

1 Bromide

5.432 5.502 -0.070 26477719 5.00 4.57

3 Nitrate as N

6.150 6.237 -0.087 39199012 NC NC

9 Orthophosphate as P

8.305 8.473 -0.168 33935700 NC NC

5 Sulfate

9.472 9.715 -0.243 77139533 7.50 7.21

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGANIONSL4_00602

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\CCV_TAIEDIIC2_Anions_20180527-170926.d

Injection Date: 27-May-2018 16:48:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: CCV

Worklist Smp#: 25

Client ID:

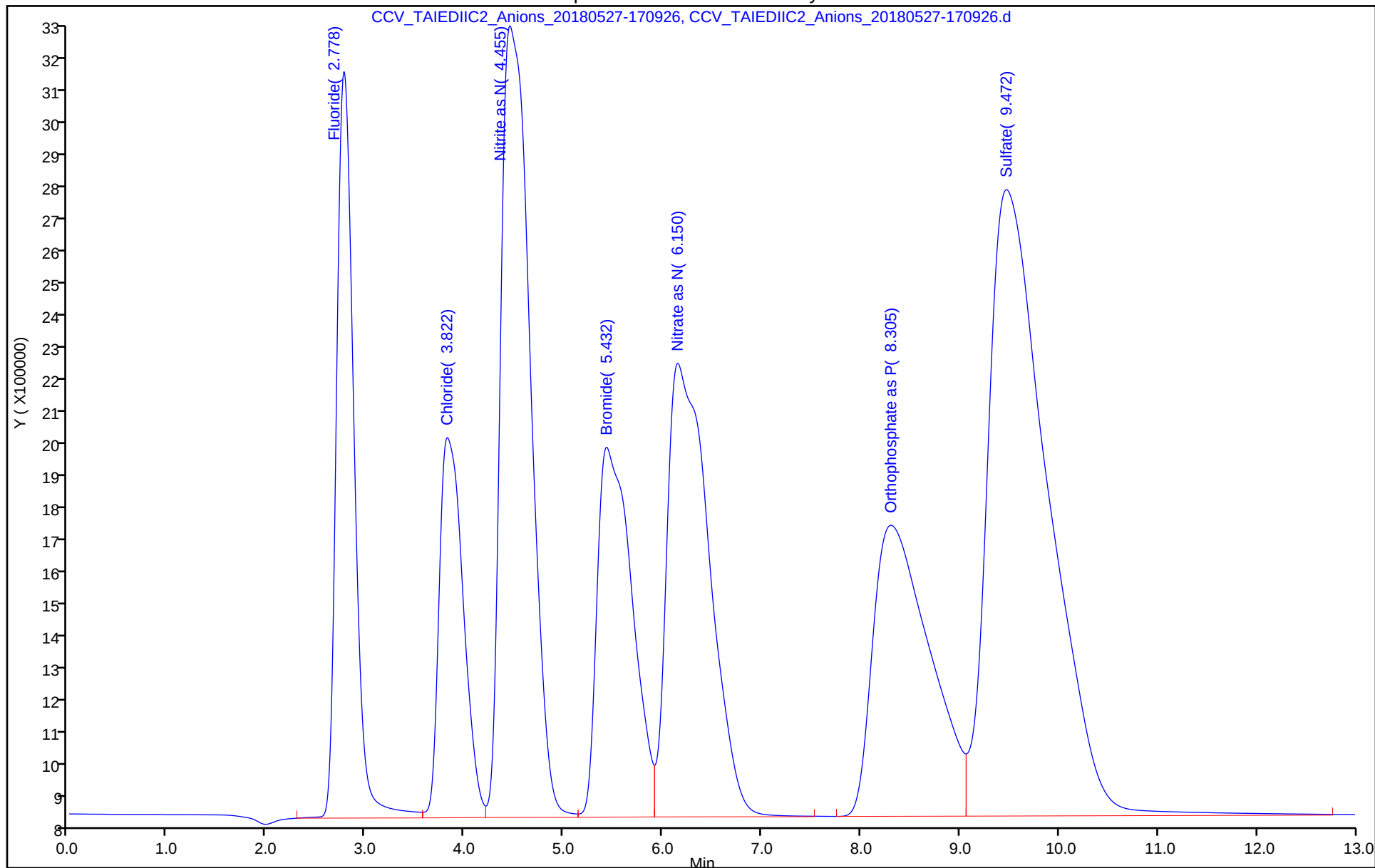
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 460-522878/3
Matrix: Water Lab File ID: MB_TAIEDIIC2_Anions_20180527-0
Analysis Method: 300.0 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/26/2018 23:46
Con. Extract Vol.: _____ Dilution Factor: 1
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522878 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.33	U	0.60	0.33
16887-00-6	Chloride	0.078	U	0.12	0.078

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\MB_TAIEDIIC2_Anions_20180527-000219.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 26-May-2018 23:46:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: MB
Operator ID: ediic2 Instrument ID: IC 2
Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
Limit Group: SV - Anions 28 days
Last Update: 27-May-2018 11:04:26 Calib Date: 23-May-2018 23:45:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d
Column 1 : Det: GC IC0
Process Host: XAWRK016

First Level Reviewer: zhangyi

Date: 27-May-2018 09:45:47

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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Report Date: 27-May-2018 11:04:33

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\MB_TAIEDIIC2_Anions_20180527-000219.d

Injection Date: 26-May-2018 23:46:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: MB

Worklist Smp#: 3

Client ID:

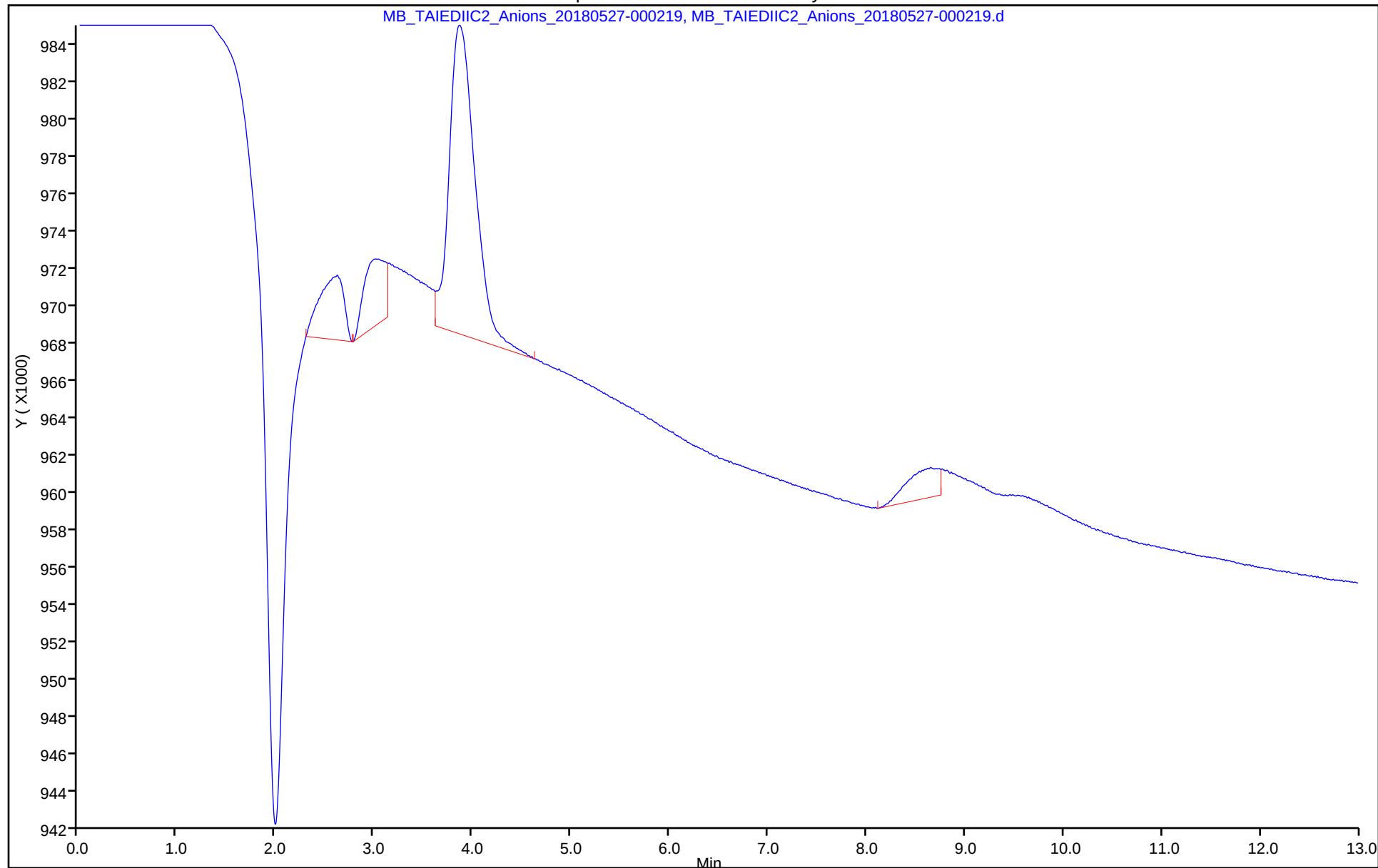
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days

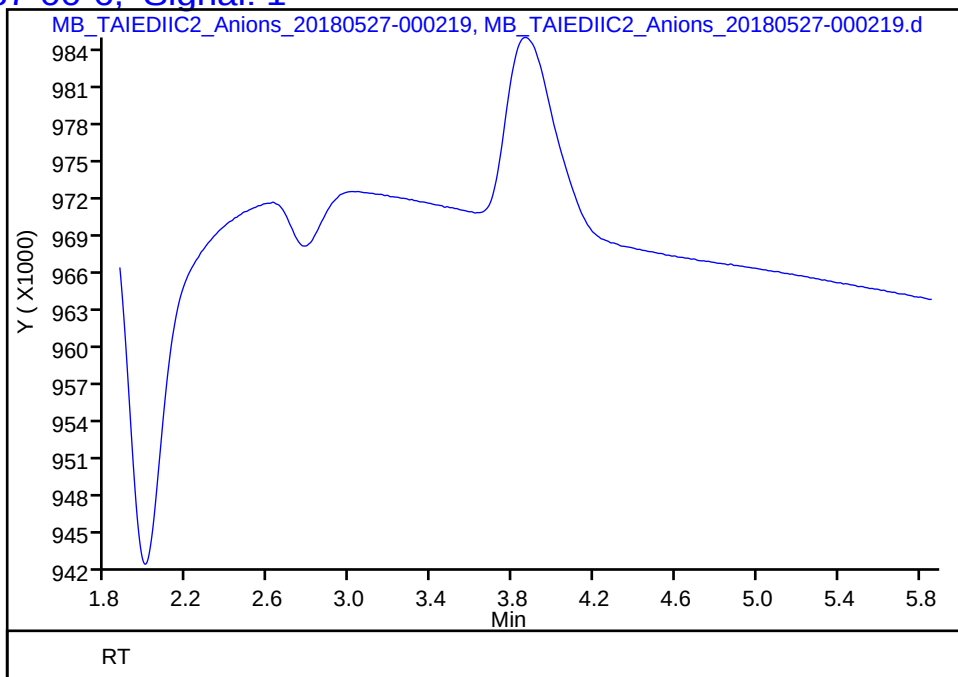


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\MB_TAIEDIIC2_Anions_20180527-000219.d
Injection Date: 26-May-2018 23:46:00 Instrument ID: IC 2
Lims ID: MB
Client ID:
Operator ID: ediic2 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: Anions-ic2 Limit Group: SV - Anions 28 days
Column: Detector GC IC0

2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 3.87
Response: 293857
Amount: 0.109004



Reviewer: zhangyi, 27-May-2018 09:45:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 460-522969/3
Matrix: Water Lab File ID: MB_TAIEDIIC2_Anions_20180527-1
Analysis Method: 300.0 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 09:54
Con. Extract Vol.: _____ Dilution Factor: 1
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.33	U	0.60	0.33
16887-00-6	Chloride	0.078	U	0.12	0.078

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\MB_TAIEDIIC2_Anions_20180527-101045.d
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-May-2018 09:54:00 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: MB
Operator ID: ediic2 Instrument ID: IC 2
Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
Limit Group: SV - Anions 28 days
Last Update: 27-May-2018 22:07:18 Calib Date: 23-May-2018 23:45:00
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d
Column 1 : Det: GC IC0
Process Host: XAWRK016

First Level Reviewer: zhangyi

Date: 27-May-2018 11:13:33

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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Report Date: 27-May-2018 22:07:21

Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\MB_TAIEDIIC2_Anions_20180527-101045.d

Injection Date: 27-May-2018 09:54:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: MB

Worklist Smp#: 3

Client ID:

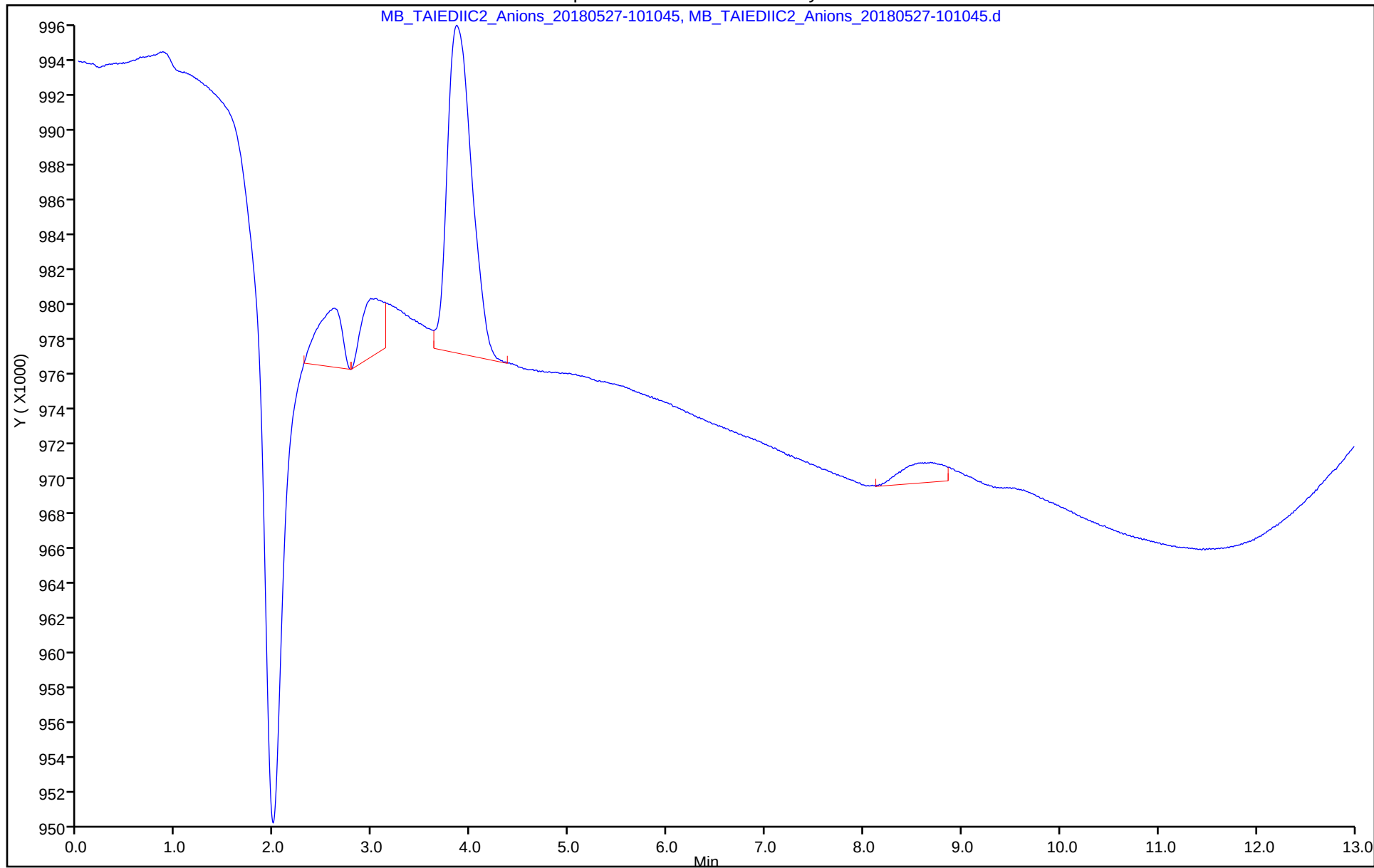
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days

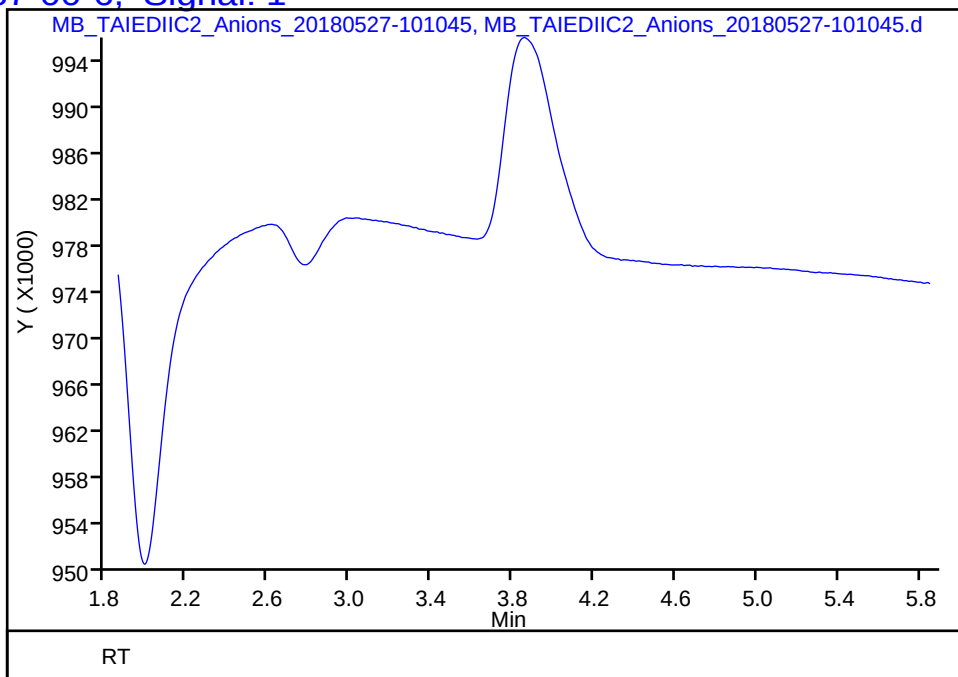


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\MB_TAIEDIIC2_Anions_20180527-101045.d
Injection Date: 27-May-2018 09:54:00 Instrument ID: IC 2
Lims ID: MB
Client ID:
Operator ID: ediic2 ALS Bottle#: 0 Worklist Smp#: 3
Injection Vol: 10.0 ul Dil. Factor: 1.0000
Method: Anions-ic2 Limit Group: SV - Anions 28 days
Column: Detector GC IC0

2 Chloride, CAS: 16887-00-6, Signal: 1

RT: 3.86
Response: 324900
Amount: 0.111181



Reviewer: zhangyi, 27-May-2018 11:13:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 460-522878/5
Matrix: Water Lab File ID: LCS_TAIEDIIC2_Anions_20180527-
Analysis Method: 300.0 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 00:18
Con. Extract Vol.: _____ Dilution Factor: 1
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522878 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	7.300		0.60	0.33
16887-00-6	Chloride	1.396		0.12	0.078

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\LCS_TAIEDIIC2_Anions_20180527-003415.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-May-2018 00:18:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: LCS
 Operator ID: edliic2 Instrument ID: IC 2
 Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 11:04:26 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.792 2.792 0.000 26184528 1.00 1.06

2 Chloride

3.865 3.868 -0.003 18655307 1.50 1.40

8 Nitrite as N

4.513 4.515 -0.002 48685626 NC NC

1 Bromide

5.513 5.518 -0.005 27021952 5.00 4.65

3 Nitrate as N

6.250 6.257 -0.007 39673702 NC NC

9 Orthophosphate as P

8.482 8.487 -0.005 36772269 NC NC

5 Sulfate

9.722 9.725 -0.003 78151396 7.50 7.30

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGAnionsSS_00011

Amount Added: 0.50

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180526-72739.b\\LCS_TAIEDIIC2_Anions_20180527-003415.d

Injection Date: 27-May-2018 00:18:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: LCS

Worklist Smp#: 5

Client ID:

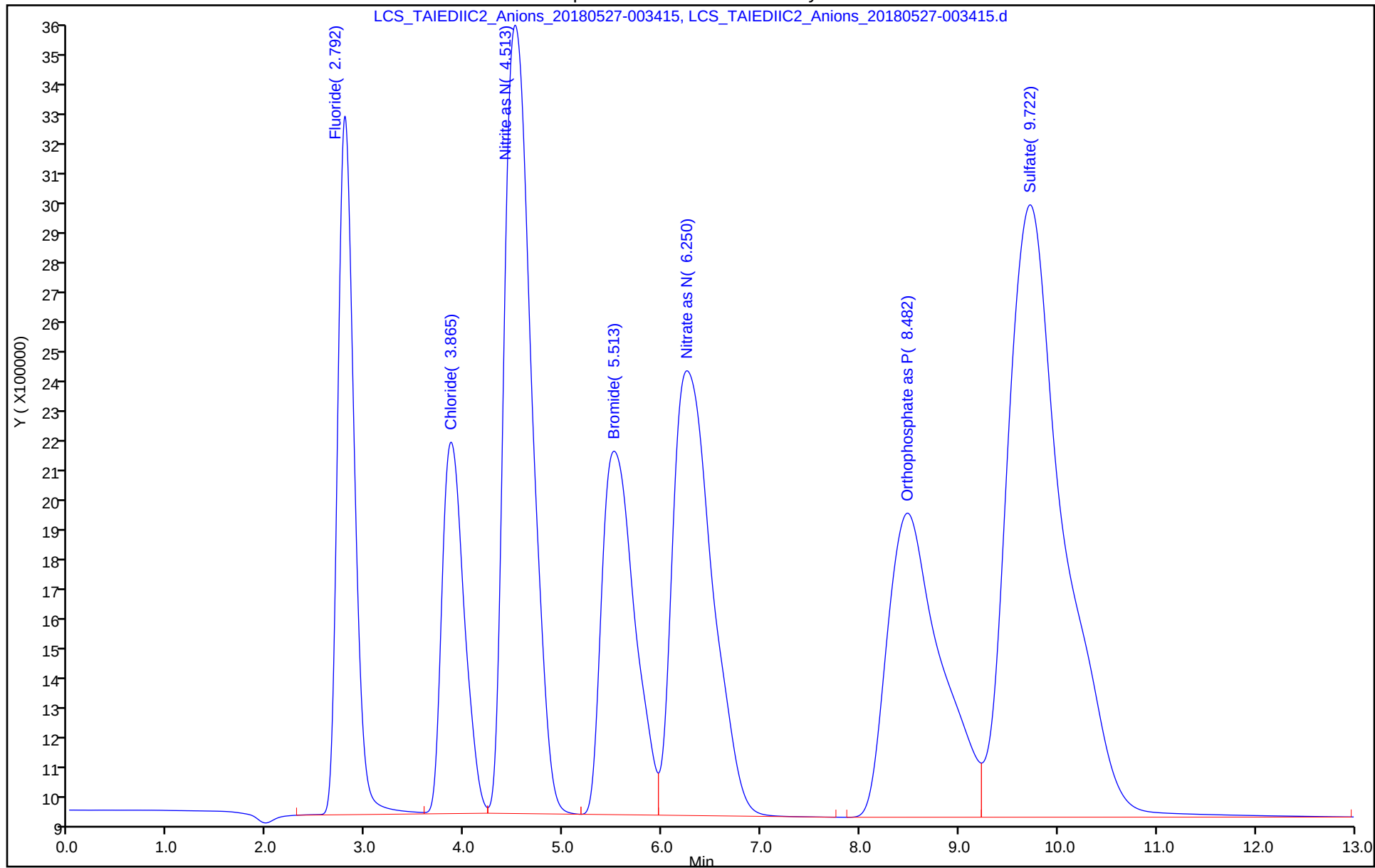
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 460-522969/5
Matrix: Water Lab File ID: LCS_TAIEDIIC2_Anions_20180527-
Analysis Method: 300.0 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 10:26
Con. Extract Vol.: _____ Dilution Factor: 1
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	7.241		0.60	0.33
16887-00-6	Chloride	1.395		0.12	0.078

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\LCS_TAIEDIIC2_Anions_20180527-104242.d
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-May-2018 10:26:00 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: LCS
 Operator ID: edliic2 Instrument ID: IC 2
 Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 22:07:18 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.790 2.788 0.002 25867149 1.00 1.05

2 Chloride

3.858 3.862 -0.004 18628012 1.50 1.39

8 Nitrite as N

4.505 4.508 -0.003 48590272 NC NC

1 Bromide

5.492 5.502 -0.010 26828411 5.00 4.62

3 Nitrate as N

6.223 6.237 -0.014 39675919 NC NC

9 Orthophosphate as P

8.470 8.473 -0.003 35988086 NC NC

5 Sulfate

9.712 9.715 -0.003 77496801 7.50 7.24

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGAnionsSS_00011

Amount Added: 0.50

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\LCS_TAIEDIIC2_Anions_20180527-104242.d

Injection Date: 27-May-2018 10:26:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: LCS

Worklist Smp#: 5

Client ID:

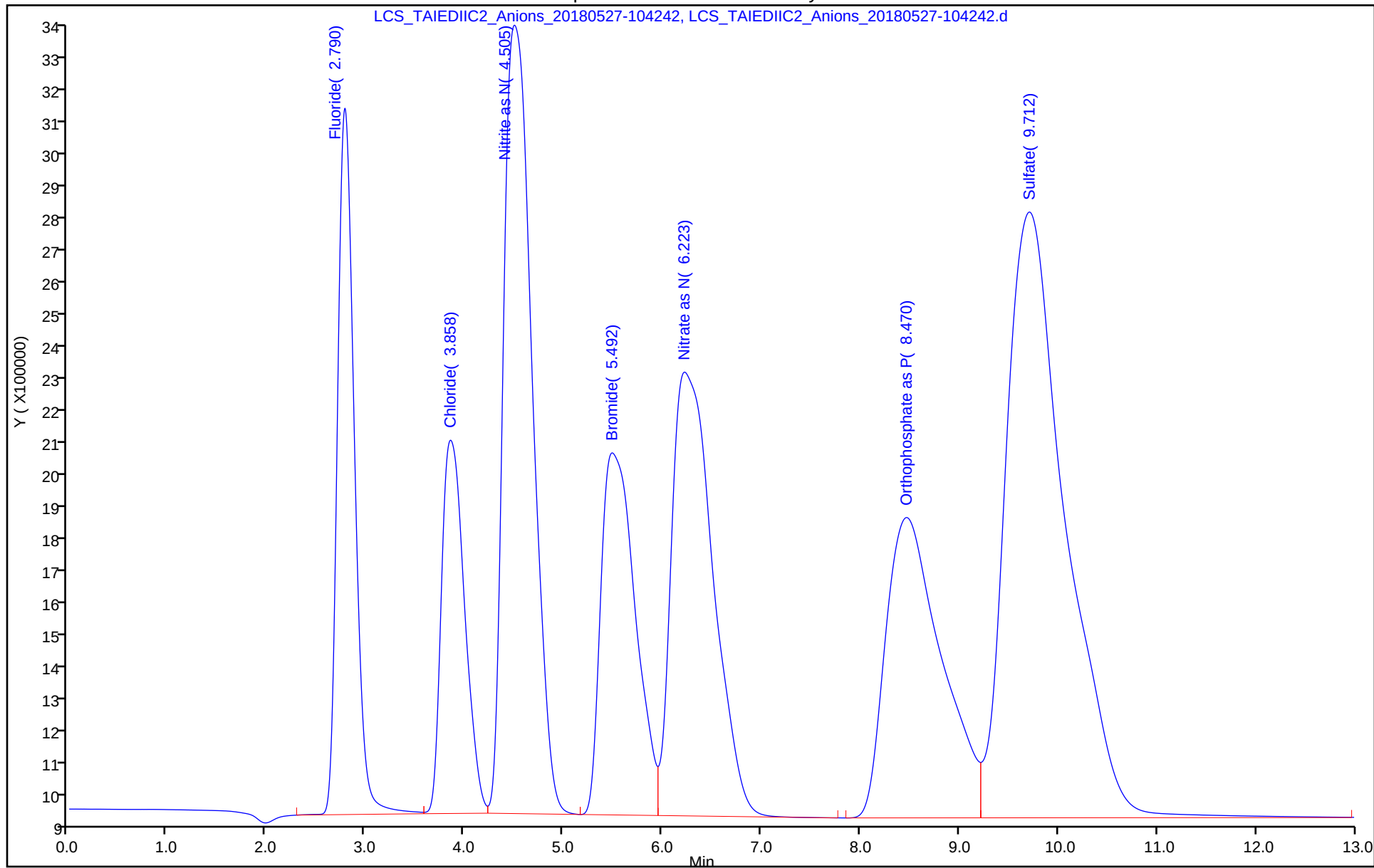
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 460-522878/6
Matrix: Water Lab File ID: LCS_TAIEDIIC2_Anions_20180527-
Analysis Method: 300.0 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 00:34
Con. Extract Vol.: _____ Dilution Factor: 1
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522878 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	7.123		0.60	0.33
16887-00-6	Chloride	1.386		0.12	0.078

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\LCS_TAIEDIIC2_Anions_20180527-005012.d
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 27-May-2018 00:34:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: LCS
 Operator ID: edliic2 Instrument ID: IC 2
 Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 11:04:26 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 :

Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.788 2.792 -0.004 23661682 1.00 0.9576

2 Chloride

3.863 3.868 -0.005 18510615 1.50 1.39

8 Nitrite as N

4.512 4.515 -0.003 48284382 NC NC

1 Bromide

5.512 5.518 -0.006 26795002 5.00 4.62

3 Nitrate as N

6.248 6.257 -0.009 39728043 NC NC

9 Orthophosphate as P

8.477 8.487 -0.010 34267631 NC NC

5 Sulfate

9.718 9.725 -0.007 76173719 7.50 7.12

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGAnionsSS_00011

Amount Added: 0.50

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\IC2\\20180526-72739.b\\LCS_TAIEDIIC2_Anions_20180527-005012.d

Injection Date: 27-May-2018 00:34:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

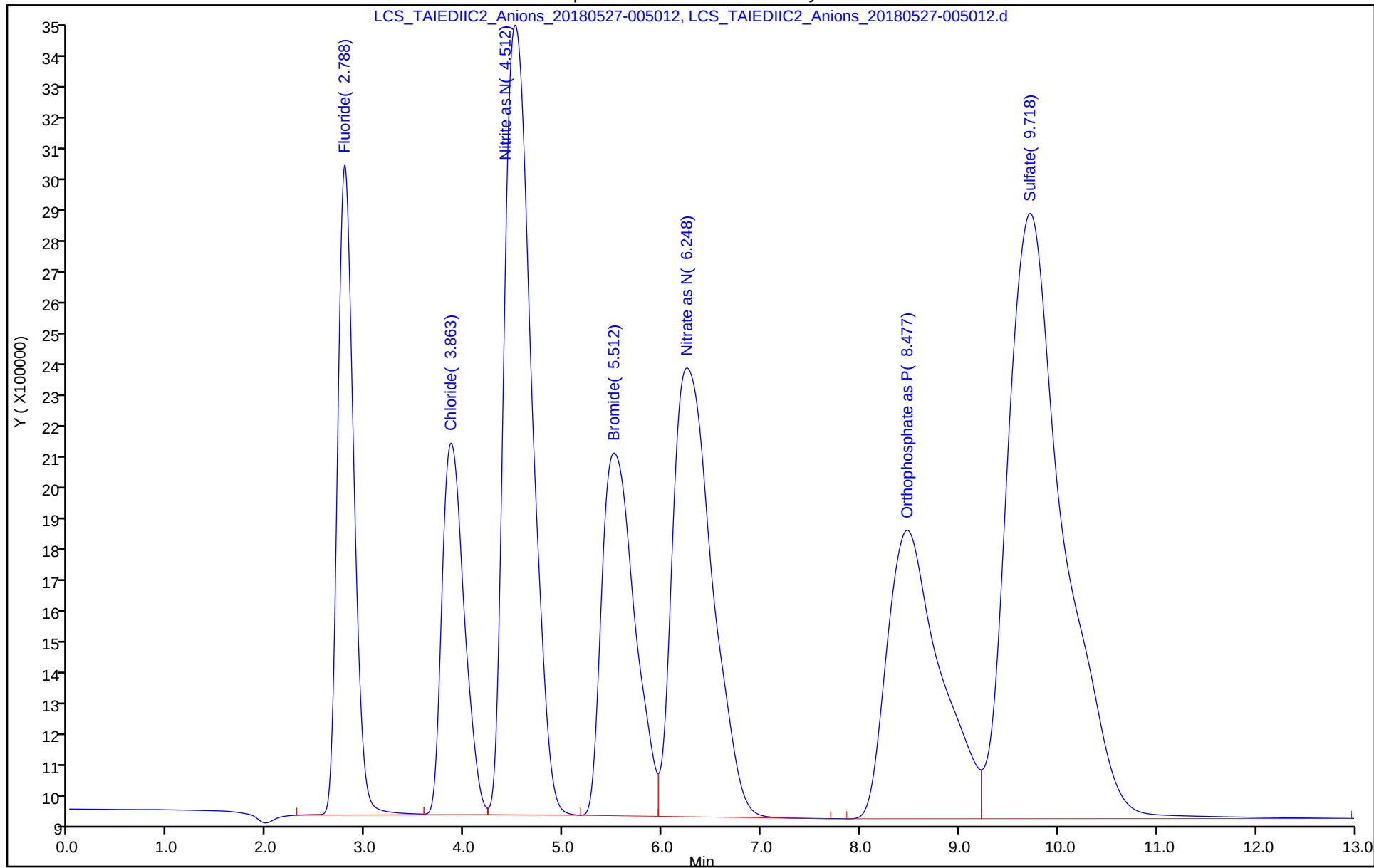
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 460-522969/6
Matrix: Water Lab File ID: LCS_TAIEDIIC2_Anions_20180527-
Analysis Method: 300.0 Date Collected: _____
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 10:42
Con. Extract Vol.: _____ Dilution Factor: 1
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	7.082		0.60	0.33
16887-00-6	Chloride	1.386		0.12	0.078

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\LCS_TAIEDIIC2_Anions_20180527-105839.d
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 27-May-2018 10:42:00 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 10.0 ul Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: LCS
 Operator ID: edliic2 Instrument ID: IC 2
 Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 22:07:18 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.788 2.788 0.000 23613685 1.00 0.9556

2 Chloride

3.858 3.862 -0.004 18499832 1.50 1.39

8 Nitrite as N

4.503 4.508 -0.005 47835473 NC NC

1 Bromide

5.492 5.502 -0.010 26655198 5.00 4.60

3 Nitrate as N

6.223 6.237 -0.014 39477674 NC NC

9 Orthophosphate as P

8.468 8.473 -0.005 33529680 NC NC

5 Sulfate

9.713 9.715 -0.002 75724815 7.50 7.08

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SGAnionsSS_00011

Amount Added: 0.50

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\LCS_TAIEDIIC2_Anions_20180527-105839.d

Injection Date: 27-May-2018 10:42:00

Instrument ID: IC 2

Operator ID: edlic2

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

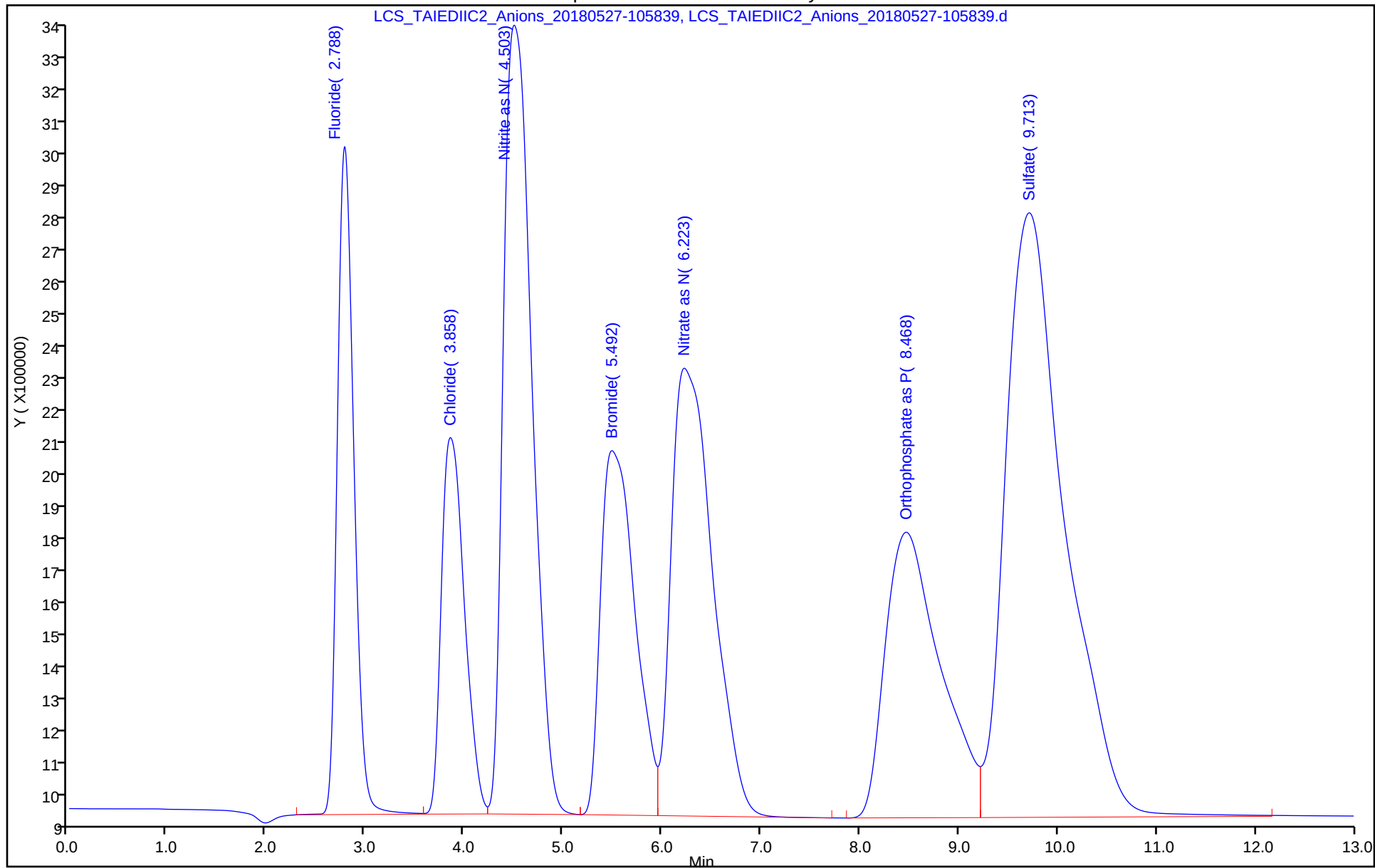
Injection Vol: 10.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: Anions-ic2

Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-3-20180525 MS DL Lab Sample ID: 460-157038-1 MS DL
Matrix: Water Lab File ID: 460-0072739-030_TAIEDIIC2_Anio
Analysis Method: 300.0 Date Collected: 05/25/2018 11:30
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 07:55
Con. Extract Vol.: _____ Dilution Factor: 10
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522878 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	438.9		6.00	3.32
16887-00-6	Chloride	466.6		1.20	0.78

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\460-0072739-030_TAIEDIIC2_Anions_20180527-0810
 Lims ID: 460-157038-G-1 MS
 Client ID: NL-MW-3-20180525
 Sample Type: MS
 Inject. Date: 27-May-2018 07:55:00 ALS Bottle#: 0 Worklist Smp#: 30
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 460-0072739-030
 Misc. Info.: 460-0072739-030
 Operator ID: ediic2 Instrument ID: IC 2
 Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 11:05:04 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
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7 Fluoride

2.783 2.792 -0.009 22701166 0.9186

2 Chloride

3.858 3.868 -0.010 664232466 46.7 E

8 Nitrite as N

4.523 4.515 0.008 48566248 NC

1 Bromide

5.513 5.518 -0.005 26026353 4.50

3 Nitrate as N

6.242 6.257 -0.015 54231502 NC

9 Orthophosphate as P

8.493 8.487 0.006 33530424 NC

5 Sulfate

9.710 9.725 -0.015 486624406 43.9 E

QC Flag Legend

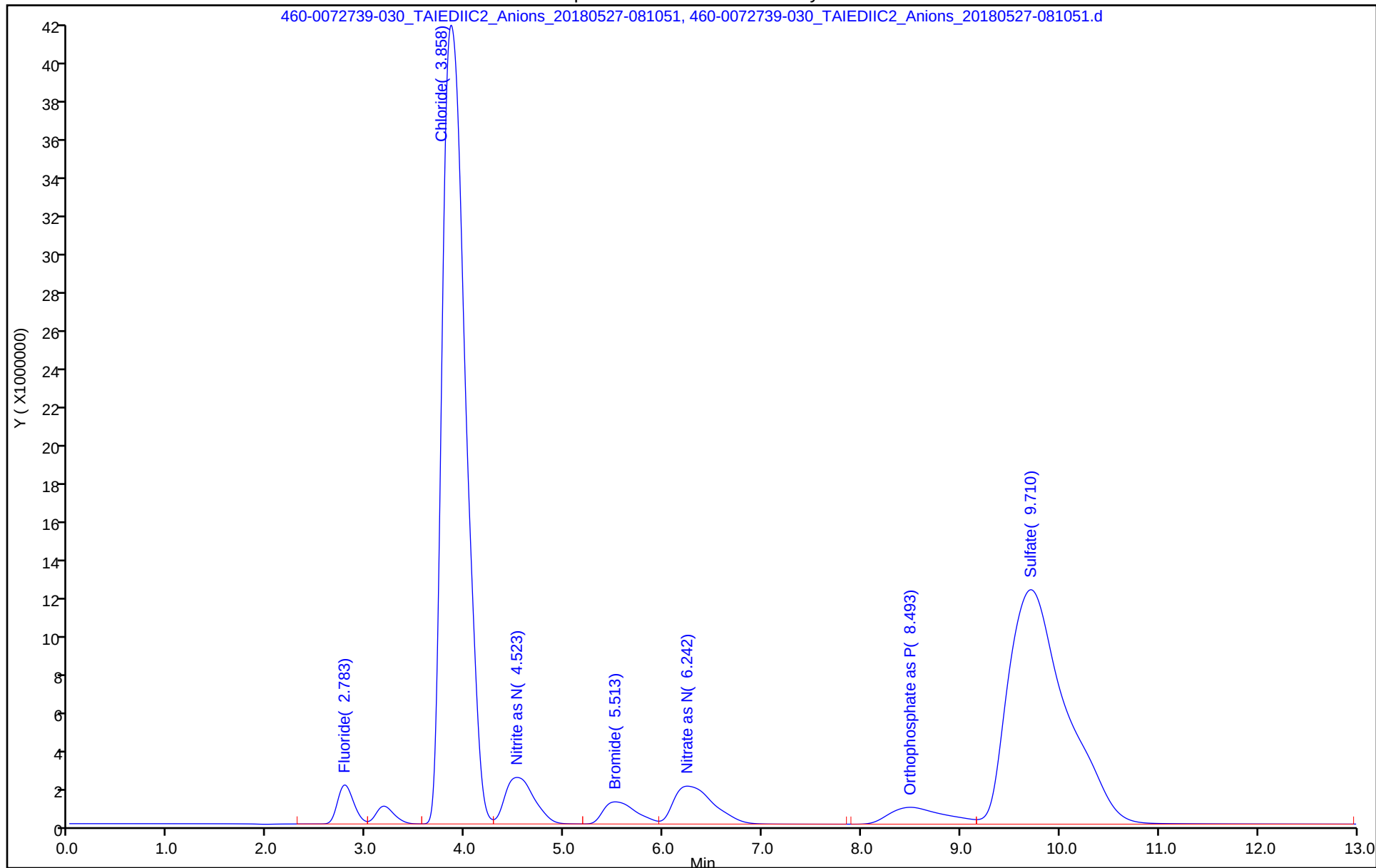
Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\460-0072739-030_TAIEDIIC2_Anions_20180527-081051.d
Injection Date: 27-May-2018 07:55:00 Instrument ID: IC 2 Operator ID: edlic2
Lims ID: 460-157038-G-1 MS Worklist Smp#: 30
Client ID: NL-MW-3-20180525
Injection Vol: 10.0 ul Dil. Factor: 10.0000 ALS Bottle#: 0
Method: Anions-ic2 Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-3-20180525 MSD DL Lab Sample ID: 460-157038-1 MSD DL
Matrix: Water Lab File ID: 460-0072739-031_TAIEDIIC2_Anio
Analysis Method: 300.0 Date Collected: 05/25/2018 11:30
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 08:11
Con. Extract Vol.: _____ Dilution Factor: 10
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522878 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	476.0		6.00	3.32
16887-00-6	Chloride	433.0		1.20	0.78

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\460-0072739-031_TAIEDIIC2_Anions_20180527-0826
 Lims ID: 460-157038-G-1 MSD
 Client ID: NL-MW-3-20180525
 Sample Type: MSD
 Inject. Date: 27-May-2018 08:11:00 ALS Bottle#: 0 Worklist Smp#: 31
 Injection Vol: 10.0 ul Dil. Factor: 10.0000
 Sample Info: 460-0072739-031
 Misc. Info.: 460-0072739-031
 Operator ID: ediic2 Instrument ID: IC 2
 Method: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 11:05:04 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 : Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

7 Fluoride

2.785 2.792 -0.007 22728799 0.9198

2 Chloride

3.857 3.868 -0.011 616194959 43.3 E

8 Nitrite as N

4.522 4.515 0.007 48426079 NC

1 Bromide

5.513 5.518 -0.005 26163538 4.52

3 Nitrate as N

6.233 6.257 -0.024 87546034 NC

9 Orthophosphate as P

8.495 8.487 0.008 33498598 NC

5 Sulfate

9.710 9.725 -0.015 528075836 47.6 E

QC Flag Legend

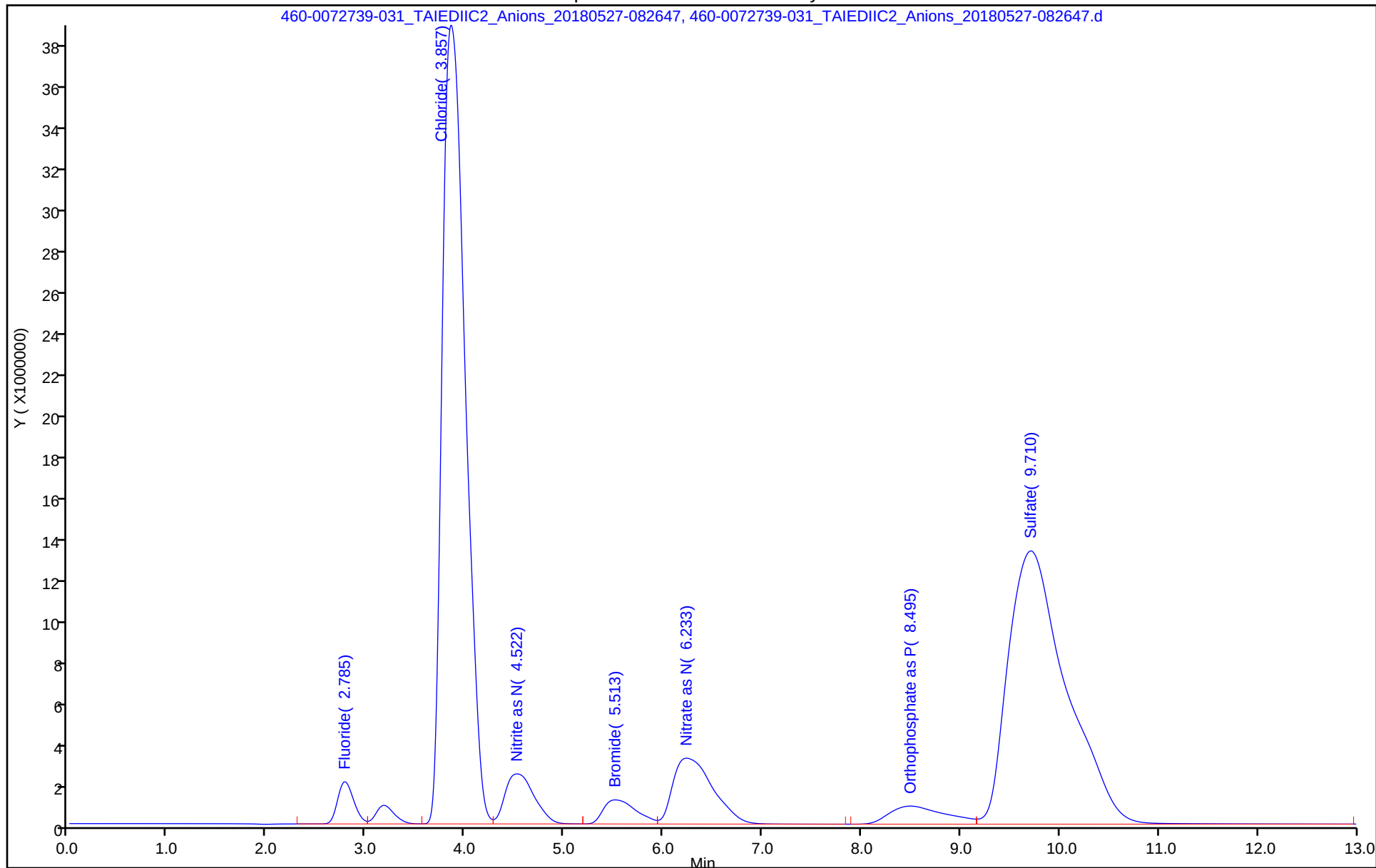
Processing Flags

NC - Not Calibrated

E - Exceeded Maximum Amount

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180526-72739.b\460-0072739-031_TAIEDIIC2_Anions_20180527-082647.d
Injection Date: 27-May-2018 08:11:00 Instrument ID: IC 2 Operator ID: edlic2
Lims ID: 460-157038-G-1 MSD Worklist Smp#: 31
Client ID: NL-MW-3-20180525
Injection Vol: 10.0 ul Dil. Factor: 10.0000 ALS Bottle#: 0
Method: Anions-ic2 Limit Group: SV - Anions 28 days



FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-3-20180525 DU DL2 Lab Sample ID: 460-157038-1 DU DL2
Matrix: Water Lab File ID: 460-0072739-029_TAIEDIIC2_Anio
Analysis Method: 300.0 Date Collected: 05/25/2018 11:30
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 14:50
Con. Extract Vol.: _____ Dilution Factor: 160
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	321.8		96.0	53.1
16887-00-6	Chloride	400.0		19.2	12.5

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\460-0072739-029_TAIEDIIC2_Anions_20180527-1505
 Lims ID: 460-157038-G-1 DU
 Client ID: NL-MW-3-20180525
 Sample Type: DU
 Inject. Date: 27-May-2018 14:50:00 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 10.0 ul Dil. Factor: 160.0000
 Sample Info: 460-0072739-029
 Misc. Info.: 460-0072739-029
 Operator ID: ediic2 Instrument ID: IC 2
 Method: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\Anions-ic2.m
 Limit Group: SV - Anions 28 days
 Last Update: 27-May-2018 22:07:31 Calib Date: 23-May-2018 23:45:00
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\IC2\20180523-72565.b\Level 7_TAIEDIIC2_Anions_20180524-084259.d

Column 1 :

Det: GC IC0

Process Host: XAWRK016

RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
--------------	------------------	------------------	----------	------------------	--------------------	-------

7 Fluoride

2.597 2.788 -0.191 47361 0.000870

2 Chloride

3.845 3.862 -0.017 34395638 2.50

1 Bromide

5.415 5.502 -0.087 22214 0.3850

3 Nitrate as N

6.240 6.237 0.003 715026 NC

9 Orthophosphate as P

8.663 8.473 0.190 18603 NC

5 Sulfate

9.668 9.715 -0.047 19109008 2.01

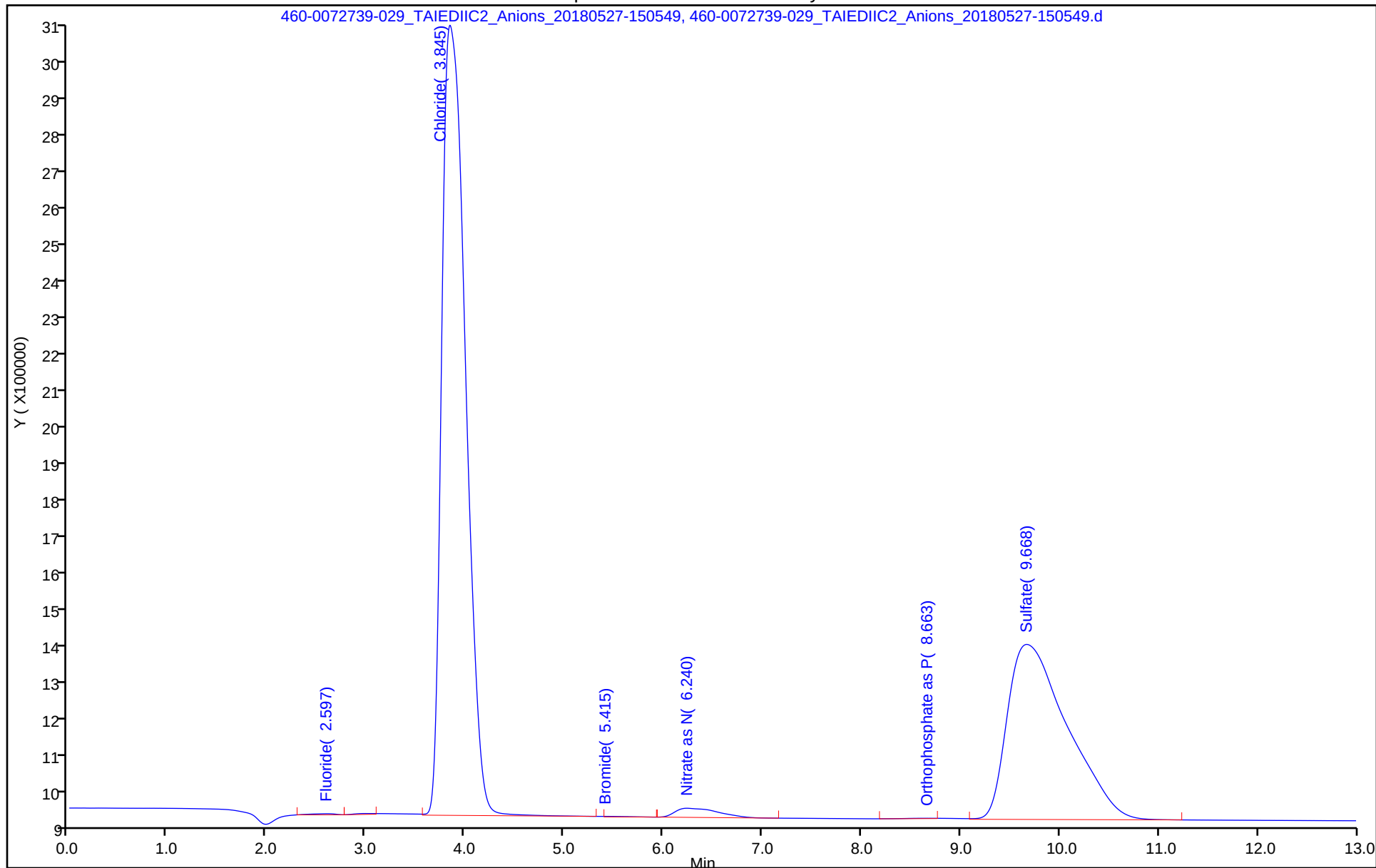
QC Flag Legend

Processing Flags

NC - Not Calibrated

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\IC2\20180527-72762.b\460-0072739-029_TAIEDIIC2_Anions_20180527-150549.d
Injection Date: 27-May-2018 14:50:00 Instrument ID: IC 2 Operator ID: edlic2
Lims ID: 460-157038-G-1 DU Worklist Smp#: 18
Client ID: NL-MW-3-20180525
Injection Vol: 10.0 ul Dil. Factor: 160.0000 ALS Bottle#: 0
Method: Anions-ic2 Limit Group: SV - Anions 28 days



HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: IC 2 Start Date: 05/23/2018 21:53Analysis Batch Number: 521970 End Date: 05/24/2018 01:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICB 460-521970/1		05/23/2018 21:53	1		Metrosep A 4 (mm)
IC 460-521970/2		05/23/2018 22:09	1		Metrosep A 4 (mm)
IC 460-521970/3		05/23/2018 22:25	1	Level 2_TAIEDIIC2_Ani ons_20180523-22 4118.d	Metrosep A 4 (mm)
IC 460-521970/4		05/23/2018 22:41	1	Level 3_TAIEDIIC2_Ani ons_20180523-22 5716.d	Metrosep A 4 (mm)
IC 460-521970/5		05/23/2018 22:57	1	Level 4_TAIEDIIC2_Ani ons_20180523-23 1313.d	Metrosep A 4 (mm)
IC 460-521970/6		05/23/2018 23:13	1	Level 5_TAIEDIIC2_Ani ons_20180524-08 4259.d	Metrosep A 4 (mm)
IC 460-521970/7		05/23/2018 23:29	1	Level 6_TAIEDIIC2_Ani ons_20180524-08 4259.d	Metrosep A 4 (mm)
IC 460-521970/8		05/23/2018 23:45	1	Level 7_TAIEDIIC2_Ani ons_20180524-08 4259.d	Metrosep A 4 (mm)
ICV 460-521970/9		05/24/2018 00:17	1		Metrosep A 4 (mm)
ICV 460-521970/10		05/24/2018 00:33	1		Metrosep A 4 (mm)
ICV 460-521970/11		05/24/2018 01:05	1		Metrosep A 4 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-157038-1

SDG No.: _____

Instrument ID: IC 2Start Date: 05/26/2018 22:53Analysis Batch Number: 522878End Date: 05/27/2018 09:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 460-522878/1		05/26/2018 22:53	1	CCV_TAIEDIIC2_Anions_20180527-093849.d	Metrosep A 4 (mm)
CCB 460-522878/2		05/26/2018 23:30	1	CCB_TAIEDIIC2_Anions_20180527-093849.d	Metrosep A 4 (mm)
MB 460-522878/3		05/26/2018 23:46	1	MB_TAIEDIIC2_Anions_20180527-000219.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 00:02	1		Metrosep A 4 (mm)
LCS 460-522878/5		05/27/2018 00:18	1	LCS_TAIEDIIC2_Anions_20180527-003415.d	Metrosep A 4 (mm)
LCSD 460-522878/6		05/27/2018 00:34	1	LCS_TAIEDIIC2_Anions_20180527-005012.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 01:06	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 01:22	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 01:38	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 01:54	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 02:10	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 02:26	10		Metrosep A 4 (mm)
CCV 460-522878/13		05/27/2018 02:42	1	CCV_TAIEDIIC2_Anions_20180527-030246.d	Metrosep A 4 (mm)
CCB 460-522878/14		05/27/2018 03:18	1	CCB_TAIEDIIC2_Anions_20180527-033441.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 03:34	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 03:50	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 04:06	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 04:22	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 04:38	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 04:54	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 05:10	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 05:26	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 05:42	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 05:58	10		Metrosep A 4 (mm)
CCV 460-522878/25		05/27/2018 06:14	1	CCV_TAIEDIIC2_Anions_20180527-063504.d	Metrosep A 4 (mm)
CCB 460-522878/26		05/27/2018 06:51	1	CCB_TAIEDIIC2_Anions_20180527-070659.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 07:07	100		Metrosep A 4 (mm)
460-157038-1 DL		05/27/2018 07:23	10	460-0072739-028_TAIEDIIC2_Anions_20180527-073856.d	Metrosep A 4 (mm)
460-157038-1 DU DL		05/27/2018 07:39	10	460-0072739-029_TAIEDIIC2_Anions_20180527-075453.d	Metrosep A 4 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: IC 2 Start Date: 05/26/2018 22:53Analysis Batch Number: 522878 End Date: 05/27/2018 09:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
460-157038-1 MS DL		05/27/2018 07:55	10	460-0072739-030 _TAIEDIIC2_Anions_20180527-081051.d	Metrosep A 4 (mm)
460-157038-1 MSD DL		05/27/2018 08:11	10	460-0072739-031 _TAIEDIIC2_Anions_20180527-082647.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 08:26	10		Metrosep A 4 (mm)
460-157038-3 DL		05/27/2018 08:42	10	460-0072739-033 _TAIEDIIC2_Anions_20180527-085812.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 08:58	1000		Metrosep A 4 (mm)
CCV 460-522878/35		05/27/2018 09:14	1	CCV_TAIEDIIC2_Anions_20180527-093440.d	Metrosep A 4 (mm)
CCB 460-522878/36		05/27/2018 09:38	1	CCB_TAIEDIIC2_Anions_20180527-095448.d	Metrosep A 4 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-157038-1

SDG No.: _____

Instrument ID: IC 2Start Date: 05/27/2018 09:14Analysis Batch Number: 522969End Date: 05/27/2018 20:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 460-522969/1		05/27/2018 09:14	1	CCV_TAIEDIIC2_Anions_20180527-110535.d	Metrosep A 4 (mm)
CCB 460-522969/2		05/27/2018 09:38	1	CCB_TAIEDIIC2_Anions_20180527-110535.d	Metrosep A 4 (mm)
MB 460-522969/3		05/27/2018 09:54	1	MB_TAIEDIIC2_Anions_20180527-101045.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 10:10	1		Metrosep A 4 (mm)
LCS 460-522969/5		05/27/2018 10:26	1	LCS_TAIEDIIC2_Anions_20180527-104242.d	Metrosep A 4 (mm)
LCSD 460-522969/6		05/27/2018 10:42	1	LCS_TAIEDIIC2_Anions_20180527-105839.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 11:40	1000		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 11:56	90		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 12:12	650		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 12:27	100		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 12:43	150		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 12:59	620		Metrosep A 4 (mm)
CCV 460-522969/13		05/27/2018 13:14	1	CCV_TAIEDIIC2_Anions_20180527-133529.d	Metrosep A 4 (mm)
CCB 460-522969/14		05/27/2018 13:47	1	CCB_TAIEDIIC2_Anions_20180527-140257.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 14:03	100		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 14:18	170		Metrosep A 4 (mm)
460-157038-1 DL2		05/27/2018 14:34	160	460-0072739-028_TAIEDIIC2_Anions_20180527-145006.d	Metrosep A 4 (mm)
460-157038-1 DU DL2		05/27/2018 14:50	160	460-0072739-029_TAIEDIIC2_Anions_20180527-150549.d	Metrosep A 4 (mm)
460-157038-1 MS DL2		05/27/2018 15:05	160	460-0072739-030_TAIEDIIC2_Anions_20180527-152131.d	Metrosep A 4 (mm)
460-157038-1 MSD DL2		05/27/2018 15:21	140	460-0072739-031_TAIEDIIC2_Anions_20180527-153714.d	Metrosep A 4 (mm)
460-157038-2 DL2		05/27/2018 15:45	100	460-0072739-032_TAIEDIIC2_Anions_20180527-160101.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 16:01	10000		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 16:16	1		Metrosep A 4 (mm)
460-157038-3		05/27/2018 16:32	1	157038-3_TAIEDIIC2_Anions_20180527-164843.d	Metrosep A 4 (mm)
CCV 460-522969/25		05/27/2018 16:48	1	CCV_TAIEDIIC2_Anions_20180527-170926.d	Metrosep A 4 (mm)

HPLC/IC ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: IC 2 Start Date: 05/27/2018 09:14Analysis Batch Number: 522969 End Date: 05/27/2018 20:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 460-522969/26		05/27/2018 17:25	1	CCB_TAIEDIIC2_A nions_20180527- 174122.d	Metrosep A 4 (mm)
ZZZZZ		05/27/2018 17:41	1		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 17:57	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 18:13	10		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 19:05	20		Metrosep A 4 (mm)
ZZZZZ		05/27/2018 19:21	20		Metrosep A 4 (mm)
CCV 460-522969/32		05/27/2018 19:37	1		Metrosep A 4 (mm)
CCB 460-522969/33		05/27/2018 20:13	1		Metrosep A 4 (mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-157038-1

SDG No.: _____

Project: 3200 Jerome Ave

Client Sample ID	Lab Sample ID
<u>NL-MW-3-20180525</u>	<u>460-157038-1</u>
<u>NL-MW-DUP-20180525</u>	<u>460-157038-2</u>
<u>NL-FB-20180525</u>	<u>460-157038-3</u>

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: NL-MW-3-20180525

Lab Sample ID: 460-157038-1

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 11:30

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	5960	150	111	ug/L			1	200.7 Rev 4.4
7440-23-5	Sodium	268000	5000	846	ug/L			1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: NL-MW-3-20180525 Lab Sample ID: 460-157038-1
Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG ID.:
Matrix: Water Date Sampled: 05/25/2018 11:30
Reporting Basis: WET Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-96-5	Manganese	1430	15.0	5.0	ug/L			1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: NL-MW-DUP-20180525

Lab Sample ID: 460-157038-2

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 11:50

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	7380	150	111	ug/L			1	200.7 Rev 4.4
7440-23-5	Sodium	272000	5000	846	ug/L			1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: NL-MW-DUP-20180525 Lab Sample ID: 460-157038-2
Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG ID.:
Matrix: Water Date Sampled: 05/25/2018 11:50
Reporting Basis: WET Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-96-5	Manganese	1510	15.0	5.0	ug/L			1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 12:00

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	111	150	111	ug/L	U		1	200.7 Rev 4.4
7440-23-5	Sodium	846	5000	846	ug/L	U		1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: NL-FB-20180525 Lab Sample ID: 460-157038-3
Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG ID.:
Matrix: Water Date Sampled: 05/25/2018 12:00
Reporting Basis: WET Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-96-5	Manganese	5.0	15.0	5.0	ug/L	U		1	200.7 Rev 4.4

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00165 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00165

Analyte	ICV 460-524302/7 05/31/2018 21:47				CCV 460-524302/40 06/01/2018 00:27				CCV 460-524302/53 06/01/2018 01:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Manganese	4978		5000	100	5146		5000	103	5096		5000	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00165 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00165

Analyte	CCV 460-524302/66 06/01/2018 02:08				CCV 460-524302/79 06/01/2018 02:59							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Manganese	5126		5000	103	5105		5000	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00168 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00168

Analyte	ICV 460-523968/7 05/31/2018 11:15				CCV 460-523968/244 06/01/2018 03:56				CCV 460-523968/257 06/01/2018 04:45			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	99280		100000	99	104500		100000	105	100700		100000	101
Sodium	123200		125000	99	131600		125000	105	126100		125000	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00168 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00168

Analyte	CCV 460-523968/270 06/01/2018 05:36											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Iron	104900		100000	105								
Sodium	131900		125000	106								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-524302/8 05/31/2018 21:50		CCB 460-524302/41 06/01/2018 00:31		CCB 460-524302/54 06/01/2018 01:21		CCB 460-524302/67 06/01/2018 02:12	
		Found	C	Found	C	Found	C	Found	C
Manganese	15.0	5.0	U	5.0	U	5.0	U	5.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 460-524302/80 06/01/2018 03:03							
		Found	C	Found	C	Found	C	Found	C
Manganese	15.0	5.0	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-523968/8 05/31/2018 11:18		CCB 460-523968/245 06/01/2018 03:59		CCB 460-523968/258 06/01/2018 04:49		CCB 460-523968/271 06/01/2018 05:40	
		Found	C	Found	C	Found	C	Found	C
Iron	150	111	U	111	U	111	U	111	U
Sodium	5000	846	U	846	U	846	U	846	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 460-523775/1-A
Instrument Code: ICP5 Batch No.: 523968

CAS No.	Analyte	Concentration	C	Q	Method
7439-89-6	Iron	111	U		200.7
7440-23-5	Sodium	846	U		200.7

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Concentration Units: ug/L Lab Sample ID: MB 460-523830/1-B
Instrument Code: ICP4 Batch No.: 524302

CAS No.	Analyte	Concentration	C	Q	Method
7439-96-5	Manganese	5.0	U		200.7

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab Sample ID: ICSA 460-524302/10 Instrument ID: ICP4
 Lab File ID: 523911.asc ICS Source: ME_ICSA_Duo_00080
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Manganese		-2.81	
<i>Aluminum</i>	<i>500000</i>	<i>489600</i>	<i>98</i>
<i>Antimony</i>		<i>-0.152</i>	
<i>Arsenic</i>		<i>-0.544</i>	
<i>Barium</i>		<i>-7.04</i>	
<i>Beryllium</i>		<i>-0.212</i>	
<i>Boron</i>		<i>-0.0484</i>	
<i>Cadmium</i>		<i>-0.595</i>	
<i>Calcium</i>	<i>500000</i>	<i>494200</i>	<i>99</i>
<i>Chromium</i>		<i>1.11</i>	
<i>Cobalt</i>		<i>-3.62</i>	
<i>Copper</i>		<i>5.52</i>	
<i>Iron</i>	<i>200000</i>	<i>193600</i>	<i>97</i>
<i>Lead</i>		<i>-0.543</i>	
<i>Magnesium</i>	<i>500000</i>	<i>499500</i>	<i>100</i>
<i>Molybdenum</i>		<i>-5.16</i>	
<i>Nickel</i>		<i>-0.311</i>	
<i>Potassium</i>		<i>-7.82</i>	
<i>Selenium</i>		<i>-1.85</i>	
<i>Silver</i>		<i>-0.878</i>	
<i>Sodium</i>		<i>20.5</i>	
<i>Strontium</i>		<i>-11.1</i>	
<i>Thallium</i>		<i>0.0269</i>	
<i>Tin</i>		<i>14.1</i>	
<i>Titanium</i>		<i>0.518</i>	
<i>Vanadium</i>		<i>5.41</i>	
<i>Zinc</i>		<i>1.52</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab Sample ID: ICSAB 460-524302/11 Instrument ID: ICP4
 Lab File ID: 523911.asc ICS Source: ME_ICSAB_DUO_00103
 Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Manganese	100	97.4	97
<i>Aluminum</i>	<i>500000</i>	<i>512500</i>	<i>102</i>
<i>Antimony</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Arsenic</i>	<i>100</i>	<i>95.8</i>	<i>96</i>
<i>Barium</i>	<i>100</i>	<i>93.3</i>	<i>93</i>
<i>Beryllium</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Boron</i>	<i>100</i>	<i>117</i>	<i>117</i>
<i>Cadmium</i>	<i>100</i>	<i>95.1</i>	<i>95</i>
<i>Calcium</i>	<i>500000</i>	<i>520600</i>	<i>104</i>
<i>Chromium</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Cobalt</i>	<i>100</i>	<i>91.4</i>	<i>91</i>
<i>Copper</i>	<i>100</i>	<i>112</i>	<i>112</i>
<i>Iron</i>	<i>200000</i>	<i>199900</i>	<i>100</i>
<i>Lead</i>	<i>100</i>	<i>94.7</i>	<i>95</i>
<i>Magnesium</i>	<i>500000</i>	<i>517800</i>	<i>104</i>
<i>Molybdenum</i>	<i>100</i>	<i>95.2</i>	<i>95</i>
<i>Nickel</i>	<i>100</i>	<i>94.6</i>	<i>95</i>
<i>Potassium</i>	<i>10000</i>	<i>10530</i>	<i>105</i>
<i>Selenium</i>	<i>100</i>	<i>88.3</i>	<i>88</i>
<i>Silver</i>	<i>100</i>	<i>104</i>	<i>104</i>
<i>Sodium</i>	<i>10000</i>	<i>10050</i>	<i>101</i>
<i>Strontium</i>	<i>100</i>	<i>87.5</i>	<i>88</i>
<i>Thallium</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Tin</i>	<i>100</i>	<i>113</i>	<i>113</i>
<i>Titanium</i>	<i>100</i>	<i>106</i>	<i>106</i>
<i>Vanadium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Zinc</i>	<i>100</i>	<i>98.0</i>	<i>98</i>

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab Sample ID: ICSA 460-523968/10 Instrument ID: ICP5
 Lab File ID: 523662D1.asc ICS Source: ME_ICSA_Duo_00081
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Iron	200000	190700	95
Sodium		-33.8	
<i>Aluminum</i>	<i>500000</i>	<i>497000</i>	<i>99</i>
<i>Antimony</i>		<i>-0.0100</i>	
<i>Arsenic</i>		<i>-2.67</i>	
<i>Barium</i>		<i>-1.24</i>	
<i>Beryllium</i>		<i>0.0142</i>	
<i>Boron</i>		<i>15.1</i>	
<i>Cadmium</i>		<i>-0.883</i>	
<i>Calcium</i>	<i>500000</i>	<i>486700</i>	<i>97</i>
<i>Chromium</i>		<i>-0.891</i>	
<i>Cobalt</i>		<i>-2.96</i>	
<i>Copper</i>		<i>-5.30</i>	
<i>Lead</i>		<i>-4.61</i>	
<i>Magnesium</i>	<i>500000</i>	<i>487900</i>	<i>98</i>
<i>Manganese</i>		<i>0.0040</i>	
<i>Molybdenum</i>		<i>1.17</i>	
<i>Nickel</i>		<i>-1.20</i>	
<i>Potassium</i>		<i>-54.8</i>	
<i>Selenium</i>		<i>-4.73</i>	
<i>Silver</i>		<i>-1.84</i>	
<i>Strontium</i>		<i>-0.865</i>	
<i>Thallium</i>		<i>2.66</i>	
<i>Tin</i>		<i>-1.10</i>	
<i>Titanium</i>		<i>-3.28</i>	
<i>Vanadium</i>		<i>0.348</i>	
<i>Zinc</i>		<i>-0.270</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Lab Sample ID: ICSAB 460-523968/11 Instrument ID: ICP5
 Lab File ID: 523662D1.asc ICS Source: ME_ICSAB_DUO_00100
 Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Iron	200000	191200	96
Sodium	10000	10300	103
<i>Aluminum</i>	<i>500000</i>	<i>498000</i>	<i>100</i>
<i>Antimony</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Arsenic</i>	<i>100</i>	<i>92.7</i>	<i>93</i>
<i>Barium</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Beryllium</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Boron</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Cadmium</i>	<i>100</i>	<i>95.4</i>	<i>95</i>
<i>Calcium</i>	<i>500000</i>	<i>488200</i>	<i>98</i>
<i>Chromium</i>	<i>100</i>	<i>99.2</i>	<i>99</i>
<i>Cobalt</i>	<i>100</i>	<i>94.8</i>	<i>95</i>
<i>Copper</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Lead</i>	<i>100</i>	<i>92.1</i>	<i>92</i>
<i>Magnesium</i>	<i>500000</i>	<i>484700</i>	<i>97</i>
<i>Manganese</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Molybdenum</i>	<i>100</i>	<i>101</i>	<i>101</i>
<i>Nickel</i>	<i>100</i>	<i>95.7</i>	<i>96</i>
<i>Potassium</i>	<i>10000</i>	<i>10140</i>	<i>101</i>
<i>Selenium</i>	<i>100</i>	<i>91.7</i>	<i>92</i>
<i>Silver</i>	<i>100</i>	<i>100</i>	<i>100</i>
<i>Strontium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Thallium</i>	<i>100</i>	<i>92.0</i>	<i>92</i>
<i>Tin</i>	<i>100</i>	<i>97.9</i>	<i>98</i>
<i>Titanium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Vanadium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Zinc</i>	<i>100</i>	<i>89.4</i>	<i>89</i>

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

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: NL-MW-3-20180525 MS

Lab ID: 460-157038-1 MS

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

% Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Iron	6988	5960	1000	103	70-130	4	200.7 Rev 4.4
Sodium	285700	268000	20000	87	70-130	4	200.7 Rev 4.4

SSR = Spiked Sample Result

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

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: NL-MW-3-20180525 MS

Lab ID: 460-157038-1 MS

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

% Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Manganese	1962	1430	500	106	70-130		200.7 Rev 4.4

SSR = Spiked Sample Result

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

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: NL-MW-3-20180525 PDS

Lab ID: 460-157038-1 PDS

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Iron	6689	5960	1000	73	85-115	N	200.7 Rev 4.4
Sodium	280400	268000	20000	NC	85-115		200.7 Rev 4.4

SSR = Spiked Sample Result

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

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: NL-MW-3-20180525 PDS

Lab ID: 460-157038-1 PDS

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Manganese	1910	1430	500	96	85-115		200.7 Rev 4.4

SSR = Spiked Sample Result

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

6-IN
DUPLICATES
METALS - TOTAL RECOVERABLE

Client ID: NL-MW-3-20180525 DU Lab ID: 460-157038-1 DU
Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
% Solids for Sample: _____ % Solids for Duplicate: _____
Matrix: Water Concentration Units: ug/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Iron	150	5960	5669	5		200.7 Rev 4.4
Sodium	5000	268000	260100	3		200.7 Rev 4.4

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

6-IN
DUPLICATES
METALS - DISSOLVED

Client ID: NL-MW-3-20180525 DU

Lab ID: 460-157038-1 DU

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

% Solids for Sample: _____

% Solids for Duplicate: _____

Matrix: Water

Concentration Units: ug/L

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Manganese	15.0	1430	1446	1		200.7 Rev 4.4

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 460-523775/2-A

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

Sample Matrix: Water

LCS Source: ME_LCS-int_00067

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Iron	1000	985.7		99	85	115		200.7 Rev 4.4
Sodium	20000	18970		95	85	115		200.7 Rev 4.4

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 460-523831/2-A

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

Sample Matrix: Water

LCS Source: ME_LCS-int_00067

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Manganese	500	519.2		104	85	115		200.7 Rev 4.4

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - TOTAL RECOVERABLE

Lab ID: 460-157038-1

SDG No:

Lab Name: TestAmerica Edison

Job No: 460-157038-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Iron	5960		5950		0.15		200.7 Rev 4.4
Sodium	268000		260700		2.9		200.7 Rev 4.4

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Edison Job Number: 460-157038-1
SDG Number: _____
Matrix: Water Instrument ID: ICP5
Method: 200.7 Rev 4.4 MDL Date: 10/19/2017 14:22
Prep Method: 200.7

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Iron		150	111
Sodium		5000	846

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Edison Job Number: 460-157038-1
SDG Number: _____
Matrix: Water Instrument ID: ICP5
Method: 200.7 Rev 4.4 XMDL Date: 10/19/2017 14:24

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Iron		150	111
Sodium		5000	846

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Edison Job Number: 460-157038-1
SDG Number: _____
Matrix: Water Instrument ID: ICP4
Method: 200.7 Rev 4.4 MDL Date: 10/19/2017 14:22
Prep Method: 200.7

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Manganese		15	4.96

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Edison Job Number: 460-157038-1
SDG Number: _____
Matrix: Water Instrument ID: ICP4
Method: 200.7 Rev 4.4 XMDL Date: 10/19/2017 14:24

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Manganese		15	4.96

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Edison

Job No: 460-157038-1

SDG No.: _____

Instrument ID: ICP4

Date: 04/23/2018 15:51

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Manganese		20000	200.7 Rev 4.4

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Edison

Job No: 460-157038-1

SDG No.: _____

Instrument ID: ICP5

Date: 04/11/2018 12:56

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Iron		800000	200.7 Rev 4.4
Sodium		500000	200.7 Rev 4.4

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Prep Method: 200.7

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-523775/1-A	05/30/2018 20:15	523775		50	50
LCS 460-523775/2-A	05/30/2018 20:15	523775		50	50
460-157038-1	05/30/2018 20:15	523775		50	50
460-157038-1 DU	05/30/2018 20:15	523775		50	50
460-157038-1 MS	05/30/2018 20:15	523775		50	50
460-157038-2	05/30/2018 20:15	523775		50	50
460-157038-3	05/30/2018 20:15	523775		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Prep Method: 200.7

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 460-523830/1-B	05/31/2018 02:30	523831		50	50
LCS 460-523831/2-A	05/31/2018 02:30	523831		50	50
460-157038-1	05/31/2018 02:30	523831		50	50
460-157038-1 DU	05/31/2018 02:30	523831		50	50
460-157038-1 MS	05/31/2018 02:30	523831		50	50
460-157038-2	05/31/2018 02:30	523831		50	50
460-157038-3	05/31/2018 02:30	523831		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP4 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 11:11 End Date: 06/01/2018 03:31

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				M n																	
ICIS 460-524302/1	1		11:11	X																	
ZZZZZZ			11:15																		
ZZZZZZ			11:19																		
ZZZZZZ			11:23																		
ZZZZZZ			11:27																		
ZZZZZZ			11:30																		
ICV 460-524302/7	1		21:47	X																	
ICB 460-524302/8	1		21:50	X																	
ICVL 460-524302/9			21:55																		
ICSA 460-524302/10	1		22:12	X																	
ICSAB 460-524302/11	1		22:17	X																	
ZZZZZZ			22:21																		
ZZZZZZ			22:25																		
CCV 460-524302/14			22:45																		
CCB 460-524302/15			22:49																		
CCVL 460-524302/16			22:53																		
ZZZZZZ			22:57																		
ZZZZZZ			23:01																		
ZZZZZZ			23:05																		
ZZZZZZ			23:09																		
ZZZZZZ			23:13																		
ZZZZZZ			23:17																		
ZZZZZZ			23:21																		
ZZZZZZ			23:24																		
ZZZZZZ			23:28																		
ZZZZZZ			23:32																		
CCV 460-524302/27			23:36																		
CCB 460-524302/28			23:40																		
CCVL 460-524302/29			23:44																		
ZZZZZZ			23:48																		
ZZZZZZ			23:52																		
ZZZZZZ			23:56																		
ZZZZZZ			00:00																		
ZZZZZZ			00:03																		
ZZZZZZ			00:07																		
ZZZZZZ			00:11																		
ZZZZZZ			00:15																		
ZZZZZZ			00:19																		
ZZZZZZ			00:23																		
CCV 460-524302/40	1		00:27	X																	
CCB 460-524302/41	1		00:31	X																	
CCVL 460-524302/42			00:35																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP4 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 11:11 End Date: 06/01/2018 03:31

Lab Sample ID	D / F	T y p e	Time	Analytes															
				M n															
ZZZZZZ			00:39																
ZZZZZZ			00:43																
ZZZZZZ			00:46																
ZZZZZZ			00:50																
ZZZZZZ			00:54																
ZZZZZZ			00:58																
ZZZZZZ			01:02																
MB 460-523830/1-B	1	D	01:06	X															
LCS 460-523831/2-A	1	R	01:10	X															
ZZZZZZ			01:14																
CCV 460-524302/53	1		01:17	X															
CCB 460-524302/54	1		01:21	X															
CCVL 460-524302/55			01:25																
ZZZZZZ			01:29																
ZZZZZZ			01:33																
ZZZZZZ			01:37																
ZZZZZZ			01:41																
460-157038-1 DU	1	D	01:45	X															
460-157038-1	1	D	01:49	X															
ZZZZZZ			01:53																
460-157038-1 MS	1	D	01:57	X															
460-157038-1 PDS	1	D	02:00	X															
ZZZZZZ			02:04																
CCV 460-524302/66	1		02:08	X															
CCB 460-524302/67	1		02:12	X															
CCVL 460-524302/68			02:16																
ZZZZZZ			02:20																
460-157038-2	1	D	02:24	X															
460-157038-3	1	D	02:28	X															
ZZZZZZ			02:32																
ZZZZZZ			02:36																
ZZZZZZ			02:40																
ZZZZZZ			02:44																
ZZZZZZ			02:47																
ZZZZZZ			02:51																
ZZZZZZ			02:55																
CCV 460-524302/79	1		02:59	X															
CCB 460-524302/80	1		03:03	X															
CCVL 460-524302/81			03:07																
ZZZZZZ			03:11																
ZZZZZZ			03:15																
ZZZZZZ			03:19																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP4 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 11:11 End Date: 06/01/2018 03:31

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				M n																	
CCV 460-524302/85			03:23																		
CCB 460-524302/86			03:27																		
CCVL 460-524302/87			03:31																		

Prep Types

D = Dissolved

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP5 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 10:51 End Date: 06/01/2018 07:52

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ICIS 460-523968/1	1		10:51	X	X																
ZZZZZZ			10:55																		
ZZZZZZ			10:59																		
ZZZZZZ			11:03																		
ZZZZZZ			11:07																		
ZZZZZZ			11:10																		
ICV 460-523968/7	1		11:15	X	X																
ICB 460-523968/8	1		11:18	X	X																
ICVL 460-523968/9			11:22																		
ICSA 460-523968/10	1		11:26	X	X																
ICSAB 460-523968/11	1		11:31	X	X																
ZZZZZZ			11:35																		
ZZZZZZ			11:39																		
ZZZZZZ			11:43																		
ZZZZZZ			11:47																		
ZZZZZZ			11:51																		
ZZZZZZ			11:55																		
ZZZZZZ			11:58																		
ZZZZZZ			12:02																		
CCV 460-523968/20			12:06																		
CCB 460-523968/21			12:10																		
CCVL 460-523968/22			12:13																		
ZZZZZZ			12:20																		
ZZZZZZ			12:24																		
ZZZZZZ			12:27																		
ZZZZZZ			12:31																		
ZZZZZZ			12:35																		
ZZZZZZ			12:39																		
ZZZZZZ			12:43																		
ZZZZZZ			12:47																		
ZZZZZZ			12:50																		
ZZZZZZ			12:54																		
CCV 460-523968/33			12:58																		
CCB 460-523968/34			13:02																		
CCVL 460-523968/35			13:06																		
ZZZZZZ			13:10																		
ZZZZZZ			13:13																		
ZZZZZZ			13:17																		
ZZZZZZ			13:21																		
ZZZZZZ			13:25																		
ZZZZZZ			13:29																		
ZZZZZZ			13:33																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP5 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 10:51 End Date: 06/01/2018 07:52

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ZZZZZZ			13:37																		
ZZZZZZ			13:40																		
ZZZZZZ			13:44																		
CCV 460-523968/46			13:48																		
CCB 460-523968/47			13:52																		
CCVL 460-523968/48			13:56																		
ZZZZZZ			14:00																		
ZZZZZZ			14:04																		
ZZZZZZ			14:07																		
ZZZZZZ			14:11																		
ZZZZZZ			14:15																		
ZZZZZZ			14:19																		
ZZZZZZ			14:22																		
ZZZZZZ			14:26																		
ZZZZZZ			14:30																		
ZZZZZZ			14:34																		
CCV 460-523968/59			14:38																		
CCB 460-523968/60			14:41																		
CCVL 460-523968/61			14:45																		
ZZZZZZ			14:49																		
ZZZZZZ			14:53																		
ZZZZZZ			14:57																		
ZZZZZZ			15:01																		
ZZZZZZ			15:05																		
ZZZZZZ			15:08																		
ZZZZZZ			15:12																		
ZZZZZZ			15:16																		
ZZZZZZ			15:20																		
ZZZZZZ			15:24																		
CCV 460-523968/72			15:28																		
CCB 460-523968/73			15:31																		
CCVL 460-523968/74			15:35																		
ZZZZZZ			15:39																		
ZZZZZZ			15:43																		
ZZZZZZ			15:47																		
ZZZZZZ			15:51																		
ZZZZZZ			15:55																		
ZZZZZZ			15:59																		
ZZZZZZ			16:03																		
ZZZZZZ			16:07																		
ZZZZZZ			16:11																		
ZZZZZZ			16:15																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP5 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 10:51 End Date: 06/01/2018 07:52

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
CCV 460-523968/85			16:20																		
CCB 460-523968/86			16:23																		
CCVL 460-523968/87			16:27																		
ZZZZZZ			16:31																		
ZZZZZZ			16:35																		
ZZZZZZ			16:39																		
ZZZZZZ			16:43																		
ZZZZZZ			16:47																		
ZZZZZZ			16:51																		
ZZZZZZ			16:55																		
ZZZZZZ			16:59																		
ZZZZZZ			17:03																		
ZZZZZZ			17:07																		
CCV 460-523968/98			17:11																		
CCB 460-523968/99			17:15																		
CCVL 460-523968/100			17:19																		
ZZZZZZ			17:23																		
ZZZZZZ			17:27																		
ZZZZZZ			17:31																		
ZZZZZZ			17:34																		
ZZZZZZ			17:38																		
ZZZZZZ			17:42																		
ZZZZZZ			17:45																		
ZZZZZZ			17:49																		
ZZZZZZ			17:53																		
ZZZZZZ			17:57																		
CCV 460-523968/111			18:01																		
CCB 460-523968/112			18:05																		
CCVL 460-523968/113			18:09																		
ZZZZZZ			18:13																		
ZZZZZZ			18:17																		
ZZZZZZ			18:21																		
ZZZZZZ			18:25																		
ZZZZZZ			18:29																		
ZZZZZZ			18:33																		
ZZZZZZ			18:37																		
ZZZZZZ			18:40																		
ZZZZZZ			18:44																		
ZZZZZZ			18:48																		
CCV 460-523968/124			18:52																		
CCB 460-523968/125			18:56																		
CCVL 460-523968/126			19:00																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP5 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 10:51 End Date: 06/01/2018 07:52

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ZZZZZZ			19:04																		
ZZZZZZ			19:07																		
ZZZZZZ			19:11																		
ZZZZZZ			19:15																		
ZZZZZZ			19:19																		
ZZZZZZ			19:23																		
ZZZZZZ			19:27																		
ZZZZZZ			19:31																		
ZZZZZZ			19:35																		
ZZZZZZ			19:38																		
CCV 460-523968/137			19:42																		
CCB 460-523968/138			19:46																		
CCVL 460-523968/139			19:50																		
CCV 460-523968/140			21:09																		
CCB 460-523968/141			21:12																		
CCVL 460-523968/142			21:16																		
ZZZZZZ			21:20																		
ZZZZZZ			21:24																		
ZZZZZZ			21:28																		
ZZZZZZ			21:32																		
ZZZZZZ			21:36																		
ZZZZZZ			21:40																		
ZZZZZZ			21:44																		
ZZZZZZ			21:48																		
ZZZZZZ			21:52																		
ZZZZZZ			21:55																		
CCV 460-523968/153			21:59																		
CCB 460-523968/154			22:03																		
CCVL 460-523968/155			22:07																		
ZZZZZZ			22:11																		
ZZZZZZ			22:15																		
ZZZZZZ			22:19																		
ZZZZZZ			22:22																		
ZZZZZZ			22:26																		
ZZZZZZ			22:30																		
ZZZZZZ			22:34																		
ZZZZZZ			22:38																		
ZZZZZZ			22:41																		
ZZZZZZ			22:45																		
CCV 460-523968/166			22:49																		
CCB 460-523968/167			22:53																		
CCVL 460-523968/168			22:57																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP5 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 10:51 End Date: 06/01/2018 07:52

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ZZZZZZ			23:01																		
ZZZZZZ			23:05																		
ZZZZZZ			23:08																		
ZZZZZZ			23:12																		
ZZZZZZ			23:16																		
ZZZZZZ			23:20																		
ZZZZZZ			23:24																		
ZZZZZZ			23:28																		
ZZZZZZ			23:32																		
ZZZZZZ			23:35																		
CCV 460-523968/179			23:39																		
CCB 460-523968/180			23:43																		
CCVL 460-523968/181			23:47																		
ZZZZZZ			23:51																		
ZZZZZZ			23:55																		
ZZZZZZ			23:59																		
ZZZZZZ			00:03																		
ZZZZZZ			00:06																		
ZZZZZZ			00:10																		
ZZZZZZ			00:14																		
ZZZZZZ			00:18																		
ZZZZZZ			00:22																		
ZZZZZZ			00:26																		
CCV 460-523968/192			00:30																		
CCB 460-523968/193			00:34																		
CCVL 460-523968/194			00:38																		
ZZZZZZ			00:42																		
ZZZZZZ			00:46																		
ZZZZZZ			00:50																		
ZZZZZZ			00:54																		
ZZZZZZ			00:58																		
ZZZZZZ			01:02																		
ZZZZZZ			01:06																		
ZZZZZZ			01:10																		
ZZZZZZ			01:14																		
ZZZZZZ			01:18																		
CCV 460-523968/205			01:22																		
CCB 460-523968/206			01:26																		
CCVL 460-523968/207			01:30																		
ZZZZZZ			01:34																		
ZZZZZZ			01:38																		
ZZZZZZ			01:42																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP5 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 10:51 End Date: 06/01/2018 07:52

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ZZZZZZ			01:46																		
ZZZZZZ			01:50																		
ZZZZZZ			01:54																		
ZZZZZZ			01:59																		
ZZZZZZ			02:03																		
ZZZZZZ			02:07																		
ZZZZZZ			02:11																		
CCV 460-523968/218			02:15																		
CCB 460-523968/219			02:19																		
CCVL 460-523968/220			02:23																		
ZZZZZZ			02:27																		
ZZZZZZ			02:31																		
ZZZZZZ			02:34																		
ZZZZZZ			02:38																		
ZZZZZZ			02:42																		
ZZZZZZ			02:46																		
ZZZZZZ			02:49																		
ZZZZZZ			02:53																		
ZZZZZZ			02:57																		
ZZZZZZ			03:01																		
CCV 460-523968/231			03:05																		
CCB 460-523968/232			03:09																		
CCVL 460-523968/233			03:13																		
ZZZZZZ			03:17																		
ZZZZZZ			03:20																		
ZZZZZZ			03:24																		
ZZZZZZ			03:28																		
ZZZZZZ			03:32																		
ZZZZZZ			03:36																		
ZZZZZZ			03:40																		
ZZZZZZ			03:44																		
ZZZZZZ			03:48																		
ZZZZZZ			03:52																		
CCV 460-523968/244	1		03:56	X	X																
CCB 460-523968/245	1		03:59	X	X																
CCVL 460-523968/246			04:03																		
ZZZZZZ			04:07																		
ZZZZZZ			04:11																		
ZZZZZZ			04:15																		
ZZZZZZ			04:19																		
ZZZZZZ			04:23																		
ZZZZZZ			04:26																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP5 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 10:51 End Date: 06/01/2018 07:52

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ZZZZZZ			04:30																		
460-157038-1 PDS	1	R	04:34	X	X																
460-157038-1 MS	1	R	04:38	X	X																
LCS 460-523775/2-A	1	R	04:42	X	X																
CCV 460-523968/257	1		04:45	X	X																
CCB 460-523968/258	1		04:49	X	X																
CCVL 460-523968/259			04:53																		
MB 460-523775/1-A	1	R	04:57	X	X																
460-157038-1 DU	1	R	05:01	X	X																
460-157038-1	1	R	05:05	X	X																
460-157038-1 SD	5	R	05:09	X	X																
ZZZZZZ			05:13																		
ZZZZZZ			05:17																		
460-157038-2	1	R	05:21	X	X																
460-157038-3	1	R	05:25	X	X																
ZZZZZZ			05:29																		
ZZZZZZ			05:33																		
CCV 460-523968/270	1		05:36	X	X																
CCB 460-523968/271	1		05:40	X	X																
CCVL 460-523968/272			05:44																		
ZZZZZZ			05:48																		
ZZZZZZ			05:52																		
ZZZZZZ			05:57																		
ZZZZZZ			06:00																		
ZZZZZZ			06:04																		
ZZZZZZ			06:08																		
ZZZZZZ			06:12																		
ZZZZZZ			06:15																		
ZZZZZZ			06:19																		
ZZZZZZ			06:23																		
CCV 460-523968/283			06:27																		
CCB 460-523968/284			06:31																		
CCVL 460-523968/285			06:35																		
ZZZZZZ			06:39																		
ZZZZZZ			06:42																		
ZZZZZZ			06:46																		
ZZZZZZ			06:50																		
ZZZZZZ			06:54																		
ZZZZZZ			06:58																		
ZZZZZZ			07:02																		
ZZZZZZ			07:05																		
ZZZZZZ			07:09																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: ICP5 Method: 200.7 Rev 4.4

Start Date: 05/31/2018 10:51 End Date: 06/01/2018 07:52

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e	N a																
ZZZZZZ			07:13																		
CCV 460-523968/296			07:17																		
CCB 460-523968/297			07:21																		
CCVL 460-523968/298			07:25																		
ZZZZZZ			07:29																		
ZZZZZZ			07:33																		
ZZZZZZ			07:37																		
ZZZZZZ			07:40																		
CCV 460-523968/303			07:44																		
CCB 460-523968/304			07:48																		
CCVL 460-523968/305			07:52																		

Prep Types

R = Total Recoverable

T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

ICP Instrument ID: ICP4 Start Date: 05/31/2018 End Date: 06/01/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Y 224.306	Q	Element Y 360.073	Q	Element Y 371.030	Q	Element	Q	Element	Q
ICIS 460-524302/1	11:11										
ICV 460-524302/7	21:47	93		90		99					
ICB 460-524302/8	21:50	101		99		100					
ICVL 460-524302/9	21:55	102		99		101					
ICSA 460-524302/10	22:12	91		85		98					
ICSAB 460-524302/11	22:17	90		85		97					
CCV 460-524302/40	00:27	94		91		96					
CCB 460-524302/41	00:31	102		99		99					
CCVL 460-524302/42	00:35	102		98		99					
MB 460-523830/1-B	01:06	103		100		100					
LCS 460-523831/2-A	01:10	102		97		100					
CCV 460-524302/53	01:17	93		91		97					
CCB 460-524302/54	01:21	103		99		98					
CCVL 460-524302/55	01:25	102		98		99					
460-157038-1 DU	01:45	95		89		96					
460-157038-1	01:49	95		89		97					
460-157038-1 MS	01:57	95		88		95					
460-157038-1 PDS	02:00	94		88		96					
CCV 460-524302/66	02:08	94		90		95					
CCB 460-524302/67	02:12	103		99		97					
CCVL 460-524302/68	02:16	102		98		97					
460-157038-2	02:24	95		88		95					
460-157038-3	02:28	104		99		97					
CCV 460-524302/79	02:59	94		90		96					
CCB 460-524302/80	03:03	103		99		97					
CCVL 460-524302/81	03:07	103		98		97					

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

ICP Instrument ID: ICP5 Start Date: 05/31/2018 End Date: 06/01/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Y 224.306	Q	Element Y 360.073	Q	Element Y 371.030	Q	Element	Q	Element	Q
ICIS 460-523968/1	10:51										
ICV 460-523968/7	11:15	95		95		99					
ICB 460-523968/8	11:18	102		101		100					
ICVL 460-523968/9	11:22	101		101		100					
ICSA 460-523968/10	11:26	90		90		96					
ICSAB 460-523968/11	11:31	89		89		94					
CCV 460-523968/244	03:56	93		91		91					
CCB 460-523968/245	03:59	100		97		95					
CCVL 460-523968/246	04:03	102		99		97					
460-157038-1 PDS	04:34	96		93		97					
460-157038-1 MS	04:38	95		93		96					
LCS 460-523775/2-A	04:42	102		99		98					
CCV 460-523968/257	04:45	94		93		94					
CCB 460-523968/258	04:49	102		101		98					
CCVL 460-523968/259	04:53	102		99		96					
MB 460-523775/1-A	04:57	102		100		96					
460-157038-1 DU	05:01	95		94		97					
460-157038-1	05:05	93		92		95					
460-157038-1 SD	05:09	100		98		98					
460-157038-2	05:21	94		93		96					
460-157038-3	05:25	104		102		99					
CCV 460-523968/270	05:36	91		89		89					
CCB 460-523968/271	05:40	102		101		97					
CCVL 460-523968/272	05:44	102		100		96					

Sample Name: ICIS Cal Blk Acquired: 5/31/2018 11:11:19 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0000	.0003	-.0005	-.0016	.0004	-.0000
Stddev	.0001	.0000	.0001	.0002	.0002	.0000
%RSD	462.0	4.785	21.86	11.01	47.54	145.8

#1	.0001	.0003	-.0006	-.0016	.0006	.0000
#2	-.0001	.0003	-.0004	-.0018	.0005	-.0000
#3	-.0000	.0004	-.0004	-.0015	.0002	-.0001

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0021	-.0008	.0000	.0034	.0000	-.0060
Stddev	.0002	.0002	.0000	.0000	.0000	.0018
%RSD	10.54	19.21	95.43	1.247	17.50	29.91

#1	-.0019	-.0007	.0000	.0034	.0000	-.0069
#2	-.0022	-.0010	.0000	.0034	.0000	-.0072
#3	-.0022	-.0008	.0001	.0035	.0000	-.0040

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0003	-.0002	-.0000	.0003	.0013
Stddev	.0000	.0000	.0004	.0000	.0002	.0001
%RSD	247.2	6.950	194.6	590.1	88.52	6.862

#1	.0000	.0003	-.0005	-.0000	.0005	.0013
#2	-.0000	.0003	.0002	-.0000	.0000	.0012
#3	.0001	.0003	-.0003	.0000	.0003	.0013

Sample Name: ICIS Cal Blk Acquired: 5/31/2018 11:11:19 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0005	.0011	.0001	.0005	.0153	.0001
Stddev	.0002	.0001	.0000	.0003	.0002	.0002
%RSD	36.61	10.28	3.612	53.99	1.222	186.3

#1	.0005	.0010	.0001	.0004	.0151	-.0000
#2	.0003	.0011	.0001	.0002	.0155	-.0000
#3	.0007	.0012	.0001	.0007	.0152	.0003

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0009	.0002	.0001	.0393
Stddev	.0001	.0002	.0000	.0013
%RSD	12.89	117.9	33.35	3.310

#1	.0008	.0003	.0001	.0378
#2	.0010	-.0000	.0000	.0404
#3	.0010	.0002	.0001	.0396

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2345.6	61426.	9281.9
Stddev	5.5	144.	35.5
%RSD	.23352	.23483	.38210

#1	2350.9	61495.	9241.2
#2	2346.0	61261.	9298.2
#3	2339.9	61523.	9306.3

Sample Name: CAL1 Acquired: 5/31/2018 11:15:19 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0007	.0022	.0040	.0009	.0012
Stddev	.0002	.0002	.0000	.0001	.0001
%RSD	22.44	10.58	.9298	13.96	9.911
#1	.0009	.0023	.0040	.0011	.0014
#2	.0005	.0019	.0041	.0010	.0012
#3	.0007	.0024	.0040	.0008	.0011
Int. Std.	Y_2243				
Line	224.306 {450}				
Units	Cts/S				
Avg	2341.7				
Stddev	5.7				
%RSD	.24550				
#1	2345.3				
#2	2344.7				
#3	2335.0				

Sample Name: CAL3 Acquired: 5/31/2018 11:23:20 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.8742	.0364	.0673	6.406	.7545	.4678
Stddev	.0033	.0001	.0004	.050	.0022	.0030
%RSD	.3780	.2450	.5767	.7727	.2902	.6381

#1	.8759	.0364	.0675	6.442	.7570	.4705
#2	.8763	.0364	.0675	6.427	.7539	.4683
#3	.8704	.0363	.0668	6.349	.7527	.4646

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.191	.6355	.1329	.9943	.0727	.4418
Stddev	.012	.0058	.0013	.0037	.0007	.0009
%RSD	1.014	.9192	.9945	.3674	.9811	.1947

#1	1.200	.6402	.1341	.9961	.0733	.4409
#2	1.196	.6372	.1331	.9967	.0727	.4419
#3	1.177	.6289	.1314	.9901	.0719	.4425

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4219	.9957	1.498	.6280	.5361	.0511
Stddev	.0030	.0069	.005	.0071	.0036	.0005
%RSD	.7043	.6881	.3130	1.132	.6756	1.021

#1	.4243	1.002	1.500	.6330	.5388	.0512
#2	.4229	.9964	1.502	.6312	.5376	.0515
#3	.4186	.9885	1.493	.6199	.5320	.0505

Sample Name: CAL3 Acquired: 5/31/2018 11:23:20 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0371	.0089	.0337	.4974	.1470	.5907
Stddev	.0005	.0004	.0002	.0050	.0007	.0064
%RSD	1.351	4.001	.5999	.9968	.4504	1.081

#1	.0375	.0089	.0338	.5018	.1473	.5950
#2	.0373	.0092	.0338	.4984	.1476	.5937
#3	.0366	.0085	.0335	.4920	.1463	.5834

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0322	6.526	2.136	.1854
Stddev	.0004	.004	.011	.0024
%RSD	1.144	.0612	.5229	1.283

#1	.0324	6.522	2.145	.1830
#2	.0324	6.526	2.139	.1854
#3	.0318	6.530	2.123	.1877

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2304.3	58903.	9209.3
Stddev	5.6	182.	107.3
%RSD	.24289	.30893	1.1653

#1	2303.2	58705.	9127.1
#2	2299.4	58942.	9170.1
#3	2310.4	59063.	9330.7

Sample Name: CAL2 Acquired: 5/31/2018 11:19:21 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0079	.0014	.0022	.7980	.0081	.0952
Stddev	.0001	.0001	.0001	.0209	.0002	.0015
%RSD	1.515	5.340	3.222	2.623	2.546	1.565

#1	.0080	.0014	.0022	.8102	.0080	.0963
#2	.0079	.0013	.0023	.8099	.0079	.0957
#3	.0077	.0015	.0022	.7738	.0083	.0935

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0166	.0621	.0014	.0134	.0006	.2193
Stddev	.0011	.0018	.0001	.0002	.0001	.0026
%RSD	6.710	2.841	5.179	1.182	13.32	1.187

#1	.0177	.0629	.0014	.0135	.0007	.2187
#2	.0166	.0633	.0014	.0135	.0007	.2222
#3	.0155	.0601	.0013	.0132	.0005	.2171

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0857	.0150	.2927	.0473	.0043	.0060
Stddev	.0012	.0002	.0027	.0010	.0004	.0004
%RSD	1.424	1.582	.9184	2.141	9.302	6.265

#1	.0867	.0152	.2896	.0479	.0047	.0064
#2	.0861	.0152	.2944	.0479	.0039	.0058
#3	.0844	.0148	.2940	.0462	.0043	.0057

Sample Name: CAL2 Acquired: 5/31/2018 11:19:21 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0019	.0015	.0035	.0302	.0474	.0238
Stddev	.0002	.0001	.0001	.0012	.0010	.0009
%RSD	11.61	10.15	3.487	4.135	2.015	3.898

#1	.0019	.0015	.0036	.0312	.0479	.0241
#2	.0017	.0013	.0034	.0305	.0480	.0245
#3	.0022	.0016	.0033	.0288	.0463	.0227

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	.0087	.1272	.0220
Stddev	.0003	.0014	.0002
%RSD	2.897	1.088	1.002

#1	.0086	.1274	.0222
#2	.0090	.1285	.0221
#3	.0086	.1257	.0218

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2344.1	60629.	9303.3
Stddev	3.3	224.	35.7
%RSD	.13873	.36980	.38423

#1	2346.9	60460.	9341.9
#2	2340.5	60883.	9271.3
#3	2345.1	60543.	9296.7

Sample Name: CAL5 Acquired: 5/31/2018 11:30:59 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.212	.3894	.7228	78.08	7.419	4.719
Stddev	.050	.0070	.0046	1.38	.029	.031
%RSD	.5379	1.790	.6406	1.771	.3932	.6567

#1	9.158	.3918	.7198	78.64	7.387	4.732
#2	9.220	.3949	.7282	79.10	7.428	4.742
#3	9.256	.3816	.7205	76.51	7.444	4.684

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	11.71	6.271	1.298	10.33	.7148	4.842
Stddev	.23	.131	.010	.10	.0053	.025
%RSD	1.937	2.082	.7628	.9451	.7368	.5114

#1	11.81	6.321	1.299	10.30	.7131	4.816
#2	11.87	6.369	1.307	10.43	.7207	4.847
#3	11.45	6.123	1.287	10.24	.7105	4.864

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.239	9.379	16.15	5.936	5.193	.5287
Stddev	.030	.056	.07	.121	.098	.0087
%RSD	.7170	.6000	.4440	2.044	1.887	1.651

#1	4.239	9.348	16.07	5.990	5.232	.5333
#2	4.269	9.444	16.18	6.021	5.265	.5341
#3	4.208	9.345	16.21	5.797	5.081	.5186

Sample Name: CAL5 Acquired: 5/31/2018 11:30:59 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3906	.0763	.3499	4.806	1.377	6.026
Stddev	.0066	.0018	.0031	.110	.022	.126
%RSD	1.696	2.344	.8930	2.278	1.626	2.092

#1	.3950	.0782	.3485	4.847	1.385	6.089
#2	.3938	.0758	.3534	4.889	1.395	6.107
#3	.3830	.0747	.3477	4.681	1.352	5.881

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3116	64.91	20.61	1.730
Stddev	.0072	.33	.18	.008
%RSD	2.313	.5026	.8858	.4426

#1	.3149	64.77	20.70	1.732
#2	.3165	65.28	20.74	1.735
#3	.3033	64.68	20.40	1.721

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2014.4	52898.	9075.8
Stddev	7.5	109.	96.5
%RSD	.37421	.20645	1.0633

#1	2015.5	52999.	9183.8
#2	2006.4	52782.	9045.2
#3	2021.4	52913.	8998.2

Sample Name: CAL4 Acquired: 5/31/2018 11:27:03 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.524	.1892	.3478	39.54	3.736	2.364
Stddev	.015	.0016	.0007	.31	.012	.003
%RSD	.3244	.8295	.2083	.7754	.3333	.1080

#1	4.522	.1894	.3483	39.72	3.748	2.367
#2	4.540	.1906	.3481	39.71	3.734	2.364
#3	4.510	.1875	.3470	39.19	3.724	2.362

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.888	3.144	.6553	5.088	.3609	2.335
Stddev	.052	.024	.0021	.017	.0008	.004
%RSD	.8825	.7628	.3142	.3234	.2094	.1820

#1	5.914	3.155	.6552	5.100	.3603	2.335
#2	5.922	3.160	.6574	5.093	.3618	2.331
#3	5.828	3.116	.6532	5.069	.3606	2.339

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.129	4.855	7.918	2.999	2.625	.2567
Stddev	.004	.004	.021	.024	.018	.0019
%RSD	.1872	.0824	.2639	.8110	.6704	.7523

#1	2.132	4.857	7.915	3.011	2.634	.2574
#2	2.130	4.858	7.898	3.014	2.636	.2581
#3	2.125	4.850	7.940	2.971	2.604	.2545

Sample Name: CAL4 Acquired: 5/31/2018 11:27:03 Type: Cal
Method: xin05082018(v32) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1894	.0393	.1714	2.427	.6926	2.976
Stddev	.0025	.0021	.0005	.021	.0039	.029
%RSD	1.304	5.305	.2754	.8435	.5592	.9608

#1	.1899	.0398	.1716	2.435	.6933	2.991
#2	.1916	.0411	.1718	2.443	.6960	2.993
#3	.1867	.0370	.1709	2.404	.6884	2.943

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1570	32.73	10.49	.8383
Stddev	.0017	.34	.02	.0070
%RSD	1.060	1.042	.1491	.8388

#1	.1576	33.11	10.50	.8335
#2	.1582	32.61	10.49	.8464
#3	.1551	32.46	10.47	.8351

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2152.2	55477.	9232.5
Stddev	5.4	97.	41.4
%RSD	.25220	.17555	.44842

#1	2152.7	55535.	9226.6
#2	2146.5	55531.	9276.5
#3	2157.3	55364.	9194.4

Sample Name: icv 5669904 Acquired: 5/31/2018 21:47:03 Type: QC
Method: xin05082018(v32) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120600.	2442.	1197.	9752.	998.1	124400.
Stddev	414.	92.	16.	313.	4.5	2212.
%RSD	.3430	3.775	1.311	3.213	.4549	1.778

#1	120400.	2495.	1206.	9949.	1001.	125700.
#2	121000.	2496.	1206.	9917.	1000.	125700.
#3	120300.	2336.	1179.	9391.	992.9	121900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1215.	2454.	4954.	11960.	98190.	48450.
Stddev	42.	92.	97.	176.	1795.	270.
%RSD	3.428	3.729	1.956	1.470	1.828	.5574

#1	1241.	2514.	5013.	12040.	99270.	48180.
#2	1238.	2499.	5006.	12080.	99190.	48460.
#3	1167.	2348.	4842.	11760.	96120.	48720.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icv 5669904 Acquired: 5/31/2018 21:47:03 Type: QC
Method: xin05082018(v32) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123600.	4978.	123300.	2468.	7436.	974.3
Stddev	2214.	79.	307.	91.	247.	35.4
%RSD	1.792	1.596	.2493	3.677	3.319	3.638

#1	124900.	5026.	123000.	2525.	7586.	994.4
#2	124800.	5023.	123200.	2515.	7571.	995.1
#3	121000.	4887.	123600.	2363.	7151.	933.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2448.	2246.	2433.	2540.	992.4	2491.
Stddev	89.	194.	43.	87.	31.6	90.
%RSD	3.624	8.647	1.776	3.434	3.185	3.628

#1	2496.	2437.	2463.	2591.	1010.	2550.
#2	2502.	2252.	2453.	2588.	1011.	2536.
#3	2346.	2049.	2383.	2439.	955.9	2387.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icv 5669904 Acquired: 5/31/2018 21:47:03 Type: QC
Method: xin05082018(v32) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1000.	4898.	9985.	9453.
Stddev	37.	70.	141.	133.
%RSD	3.741	1.426	1.416	1.405

#1	1023.	4937.	10040.	9407.
#2	1021.	4939.	10090.	9603.
#3	957.0	4817.	9824.	9350.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2172.1	55539.	9179.3
Stddev	11.6	176.	97.4
%RSD	.53191	.31723	1.0606

#1	2167.5	55479.	9196.8
#2	2163.5	55401.	9266.7
#3	2185.2	55738.	9074.4

Sample Name: icb Acquired: 5/31/2018 21:50:59 Type: QC
Method: xin05082018(v32) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.220	.5275	.3475	-.0334	.0373	-3.499
Stddev	5.573	.2454	.2443	.0733	.0358	3.549
%RSD	77.18	46.52	70.30	219.4	96.00	101.4

#1	-3.588	.8108	.6092	.0503	.0317	.4803
#2	-4.437	.3809	.1254	-.0862	.0755	-4.642
#3	-13.64	.3907	.3080	-.0643	.0046	-6.336

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0928	.0239	-.0702	-.0405	4.574	23.96
Stddev	.0638	.2154	.1061	.1215	9.320	27.44
%RSD	68.72	901.5	151.2	299.8	203.7	114.5

#1	-.1638	.2282	.0451	-.0079	10.51	41.26
#2	-.0746	-.2012	-.0920	-.1749	9.377	38.29
#3	-.0402	.0447	-.1636	.0613	-6.167	-7.676

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icb Acquired: 5/31/2018 21:50:59 Type: QC
Method: xin05082018(v32) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.500	-.1820	19.88	-.9628	-.4914	.5948
Stddev	1.479	.0571	6.38	.0861	.6157	.9753
%RSD	98.60	31.36	32.09	8.937	125.3	164.0

#1	2.994	-.1220	27.09	-.8709	-1.116	-.1114
#2	.0359	-.2356	17.59	-.9762	-.4728	1.708
#3	1.471	-.1884	14.97	-1.041	.1148	.1881

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.622	5.464	-.6271	-.2988	1.814	1.414
Stddev	1.498	11.66	.5205	.0471	.473	.243
%RSD	92.38	213.3	82.99	15.75	26.10	17.21

#1	.9711	2.155	-.7430	-.2484	2.249	1.690
#2	.5588	-4.180	-.0585	-.3064	1.884	1.319
#3	3.335	18.42	-1.080	-.3415	1.309	1.232

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icb Acquired: 5/31/2018 21:50:59 Type: QC
Method: xin05082018(v32) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7278	.0272	.9340	-4.964
Stddev	.6385	.0607	.1643	5.116
%RSD	87.73	222.8	17.59	103.1

#1	1.445	-.0008	1.123	-6.828
#2	.2218	.0968	.8270	-8.888
#3	.5164	-.0143	.8518	.8226

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2379.5	60920.	9284.8
Stddev	10.5	229.	36.2
%RSD	.44083	.37584	.39001

#1	2374.7	60949.	9245.9
#2	2372.2	60678.	9290.7
#3	2391.5	61133.	9317.6

Sample Name: icvl 5820126 Acquired: 5/31/2018 21:55:02 Type: QC
Method: xin05082018(v32) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.9	14.15	9.723	207.3	2.059	5128.
Stddev	12.2	1.82	.200	2.4	.048	17.
%RSD	5.670	12.88	2.058	1.160	2.341	.3408
#1	200.8	14.11	9.807	207.5	2.102	5148.
#2	221.9	12.35	9.494	209.6	2.007	5121.
#3	221.9	15.99	9.867	204.8	2.069	5115.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.078	51.18	10.45	24.43	168.6	4784.
Stddev	.096	.75	.45	.17	5.0	33.
%RSD	2.348	1.475	4.266	.6993	2.965	.6794
#1	4.127	51.58	10.02	24.49	164.8	4756.
#2	4.139	51.65	10.91	24.24	174.3	4777.
#3	3.967	50.31	10.42	24.57	166.9	4820.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icvl 5820126 Acquired: 5/31/2018 21:55:02 Type: QC
Method: xin05082018(v32) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5124.	15.79	4677.	39.99	9.642	22.13
Stddev	17.	.10	19.	.66	1.142	.58
%RSD	.3293	.6338	.4143	1.638	11.85	2.608

#1	5141.	15.80	4654.	40.38	8.398	22.79
#2	5124.	15.88	4688.	40.36	10.64	21.70
#3	5108.	15.68	4688.	39.24	9.883	21.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.73	22.83	48.64	32.27	53.69	21.16
Stddev	3.65	9.73	1.01	.27	.79	.44
%RSD	17.60	42.60	2.073	.8211	1.463	2.061

#1	17.14	26.33	47.70	32.28	54.44	21.21
#2	24.44	30.33	49.70	32.53	53.76	21.57
#3	20.62	11.84	48.52	32.00	52.87	20.70

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icvl 5820126 Acquired: 5/31/2018 21:55:02 Type: QC
Method: xin05082018(v32) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.60	19.42	21.67	F 119.2
Stddev	1.64	.05	.09	3.4
%RSD	3.054	.2360	.4060	2.813

#1	54.22	19.47	21.66	116.3
#2	54.85	19.41	21.76	122.9
#3	51.75	19.38	21.59	118.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2386.0	60564.	9365.9
Stddev	5.0	132.	44.6
%RSD	.21072	.21727	.47570

#1	2389.8	60561.	9372.0
#2	2387.9	60697.	9318.6
#3	2380.3	60434.	9407.1

Sample Name: icsa 5614750 Acquired: 5/31/2018 22:12:49 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	489600.	-.5436	-.8776	-7.044	-.2122	494200.
Stddev	3606.	4.673	.1979	.212	.0344	1377.
%RSD	.7366	859.5	22.55	3.006	16.21	.2786

#1	485500.	-.1420	-1.044	-7.180	-.1733	494900.
#2	491300.	-5.404	-.9297	-7.152	-.2386	495000.
#3	492000.	3.915	-.6589	-6.800	-.2249	492600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5945	-3.620	1.106	5.524	193600.	-7.819
Stddev	.5508	.354	.217	.062	1481.	19.73
%RSD	92.66	9.782	19.65	1.117	.7649	252.3

#1	-.1599	-3.613	.9166	5.595	194600.	14.91
#2	-.4095	-3.978	1.059	5.489	194400.	-17.90
#3	-1.214	-3.270	1.344	5.487	191900.	-20.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsa 5614750 Acquired: 5/31/2018 22:12:49 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	499500.	-2.812	20.49	-.3105	-.5430	-.1517
Stddev	5062.	.050	15.03	.2456	.0206	.9203
%RSD	1.013	1.784	73.35	79.10	3.799	606.8

#1	502700.	-2.858	16.07	-.4740	-.5243	-.3254
#2	502100.	-2.821	37.24	-.0281	-.5651	-.9728
#3	493700.	-2.758	8.169	-.4295	-.5395	.8431

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.852	.0269	5.412	1.517	-.0484	-5.159
Stddev	7.359	16.63	.950	.416	.8708	.490
%RSD	397.4	61740.	17.55	27.41	1800.	9.490

#1	-10.04	14.60	4.716	1.047	.7235	-5.427
#2	4.202	-18.09	5.026	1.836	.1237	-5.455
#3	.2851	3.569	6.494	1.667	-.9923	-4.594

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsa 5614750 Acquired: 5/31/2018 22:12:49 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	14.05	-11.09	.5184	F -262.7
Stddev	1.37	.10	.1167	7.2
%RSD	9.772	.8654	22.50	2.726

#1	15.48	-11.15	.4808	-262.2
#2	12.74	-11.15	.4252	-270.2
#3	13.93	-10.98	.6492	-255.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2132.3	52509.	9051.0
Stddev	8.8	89.	14.3
%RSD	.41322	.16921	.15792

#1	2128.0	52582.	9067.0
#2	2126.5	52536.	9039.4
#3	2142.4	52410.	9046.6

Sample Name: int-10a 5622486 Acquired: 5/31/2018 22:21:23 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.154	.3661	13.13	1.730	-1.034	-1.303
Stddev	5.984	1.285	.28	.044	.053	1.422
%RSD	189.7	350.9	2.137	2.521	5.140	109.2

#1	1.863	1.297	13.20	1.744	-.9781	.3004
#2	-9.777	.9004	13.37	1.765	-1.040	-2.412
#3	-1.549	-1.099	12.82	1.681	-1.084	-1.797

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1525	9594.	.3733	-3.063	-6.997	17.99
Stddev	.0177	95.	.2415	.213	11.92	33.43
%RSD	11.57	.9857	64.69	6.941	170.4	185.9

#1	.1508	9661.	.2007	-2.878	6.603	44.87
#2	.1710	9634.	.6493	-3.015	-15.63	28.54
#3	.1358	9485.	.2700	-3.295	-11.96	-19.45

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10a 5622486 Acquired: 5/31/2018 22:21:23 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.966	.2496	.8443	-3.991	-5.958	7.229
Stddev	2.707	.0437	13.02	.401	1.209	1.391
%RSD	91.26	17.51	1542.	10.06	20.29	19.25

#1	2.752	.2994	15.23	-4.093	-5.431	8.723
#2	5.774	.2173	-2.563	-4.331	-5.101	5.971
#3	.3726	.2323	-10.13	-3.548	-7.341	6.993

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.114	-1.907	4569.	-.2663	13.20	-.0942
Stddev	2.023	17.11	36.	.2559	.04	.0803
%RSD	95.70	896.9	.7776	96.11	.3200	85.18

#1	.2159	-8.802	4608.	-.0537	13.16	-.0998
#2	-3.132	17.57	4564.	-.5503	13.21	-.0113
#3	-3.428	-14.49	4537.	-.1947	13.24	-.1715

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10a 5622486 Acquired: 5/31/2018 22:21:23 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9727.	9244.	.1463	8016.
Stddev	100.	135.	.0315	37.
%RSD	1.024	1.461	21.52	.4633

#1	9806.	9186.	.1820	8002.
#2	9760.	9399.	.1223	7987.
#3	9615.	9148.	.1347	8058.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2367.9	60943.	9356.4
Stddev	15.0	346.	42.8
%RSD	.63466	.56754	.45730

#1	2351.1	60563.	9396.2
#2	2372.4	61024.	9311.1
#3	2380.1	61240.	9362.0

Sample Name: icsab 5741108 Acquired: 5/31/2018 22:17:10 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	512500.	95.84	104.4	93.28	102.7	520600.
Stddev	2331.	3.29	1.5	2.16	.7	2984.
%RSD	.4547	3.428	1.420	2.313	.6493	.5731

#1	515200.	98.76	105.3	94.16	102.1	522900.
#2	510800.	96.47	105.3	94.86	103.5	521800.
#3	511600.	92.28	102.7	90.82	102.6	517200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.10	91.38	101.4	111.9	199900.	10530.
Stddev	2.50	2.15	1.3	1.5	3138.	59.
%RSD	2.628	2.349	1.306	1.306	1.569	.5589

#1	96.54	92.18	101.5	112.8	201800.	10510.
#2	96.54	93.01	102.6	112.6	201700.	10590.
#3	92.21	88.95	99.95	110.2	196300.	10480.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsab 5741108 Acquired: 5/31/2018 22:17:10 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	517800.	97.36	10050.	94.64	94.70	102.0
Stddev	6813.	1.11	60.	3.08	1.81	3.5
%RSD	1.316	1.144	.5957	3.258	1.916	3.416

#1	524100.	97.71	10050.	96.33	93.34	101.0
#2	518800.	98.25	10120.	96.51	93.99	105.9
#3	510600.	96.11	9998.	91.08	96.76	99.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	88.29	102.5	101.6	97.98	117.1	95.19
Stddev	8.50	19.0	1.0	2.40	2.0	2.80
%RSD	9.629	18.52	.9553	2.450	1.681	2.943

#1	87.82	124.4	102.6	99.21	118.2	96.41
#2	97.01	91.38	100.8	99.53	118.2	97.18
#3	80.03	91.67	101.2	95.22	114.8	91.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsab 5741108 Acquired: 5/31/2018 22:17:10 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	112.6	87.52	105.7	50.91
Stddev	3.0	.61	1.7	13.21
%RSD	2.638	.7025	1.567	25.94

#1	113.8	86.95	106.4	43.77
#2	114.9	88.17	106.8	42.81
#3	109.3	87.44	103.8	66.14

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2116.0	52211.	8994.3
Stddev	9.5	88.	23.0
%RSD	.44923	.16936	.25592

#1	2126.8	52209.	8998.9
#2	2108.9	52124.	9014.6
#3	2112.3	52300.	8969.3

Sample Name: int-10b 5622488 Acquired: 5/31/2018 22:25:29 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-13.96	-.2477	.4291	-1.173	-.2541	-67.59
Stddev	2.81	2.118	.1446	.039	.1351	4.42
%RSD	20.14	855.0	33.69	3.348	53.19	6.533

#1	-10.71	1.405	.3068	-1.169	-.2409	-71.46
#2	-15.46	-2.635	.5886	-1.136	-.1260	-68.54
#3	-15.69	.4864	.3917	-1.214	-.3953	-62.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.598	1.839	9555.	8977.	3.005	6.601
Stddev	.047	.143	35.	15.	3.877	13.01
%RSD	2.960	7.770	.3696	.1666	129.0	197.1

#1	-1.567	1.950	9570.	8962.	7.335	5.892
#2	-1.575	1.889	9581.	8992.	-.1434	-6.040
#3	-1.653	1.678	9515.	8977.	1.823	19.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10b 5622488 Acquired: 5/31/2018 22:25:29 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-82.19	9426.	7.244	9876.	-8.590	-4.741
Stddev	1.65	19.	11.40	142.	1.126	2.263
%RSD	2.013	.2017	157.4	1.438	13.11	47.73

#1	-82.40	9425.	-5.242	9935.	-8.179	-4.041
#2	-80.44	9446.	9.871	9979.	-9.865	-2.910
#3	-83.73	9408.	17.10	9714.	-7.728	-7.271

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.501	2.804	46.98	-3.289	-4.429	4873.
Stddev	1.906	13.13	1.45	.535	.383	71.
%RSD	127.0	468.1	3.095	16.28	8.652	1.457

#1	2.080	16.77	48.50	-3.723	-4.856	4909.
#2	3.049	.9318	46.86	-3.453	-4.114	4919.
#3	-.6276	-9.286	45.60	-2.691	-4.318	4791.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10b 5622488 Acquired: 5/31/2018 22:25:29 Type: QC
Method: xin05082018(v33) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-13.40	.3538	9450.	33.63
Stddev	.54	.2350	56.	7.92
%RSD	4.035	66.42	.5938	23.53

#1	-13.96	.6210	9472.	24.57
#2	-12.88	.1788	9491.	37.17
#3	-13.35	.2617	9386.	39.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2296.6	61062.	9419.7
Stddev	8.6	106.	70.2
%RSD	.37594	.17407	.74543

#1	2303.2	61164.	9381.1
#2	2286.9	61071.	9500.8
#3	2299.8	60952.	9377.3

Sample Name: CCV Acquired: 5/31/2018 22:45:55 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121600.	2511.	1224.	9974.	1002.	126500.
Stddev	670.	12.	1.	37.	2.	282.
%RSD	.5508	.4911	.0663	.3681	.1761	.2227

#1	122300.	2515.	1225.	10020.	1001.	126800.
#2	121300.	2521.	1225.	9963.	1004.	126300.
#3	121100.	2497.	1223.	9944.	1000.	126500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1245.	2506.	5063.	12220.	101200.	48640.
Stddev	6.	15.	13.	31.	459.	23.
%RSD	.5187	.5856	.2656	.2514	.4535	.0476

#1	1250.	2520.	5079.	12220.	101700.	48620.
#2	1247.	2507.	5057.	12250.	101000.	48650.
#3	1238.	2491.	5054.	12190.	100900.	48660.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 22:45:55 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126300.	5098.	124800.	2507.	7582.	998.4
Stddev	324.	16.	534.	18.	49.	4.5
%RSD	.2567	.3060	.4278	.7290	.6408	.4519

#1	126700.	5116.	124400.	2524.	7629.	1001.
#2	126100.	5089.	125400.	2508.	7584.	1001.
#3	126100.	5090.	124700.	2488.	7532.	993.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2517.	2311.	2507.	2607.	1011.	2556.
Stddev	19.	159.	9.	15.	4.	13.
%RSD	.7533	6.861	.3400	.5628	.4322	.5188

#1	2532.	2430.	2513.	2618.	1014.	2567.
#2	2525.	2371.	2511.	2613.	1013.	2559.
#3	2496.	2131.	2497.	2591.	1006.	2541.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 22:45:55 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1028.	4891.	10100.	9324.
Stddev	4.	24.	58.	83.
%RSD	.3566	.4843	.5778	.8923

#1	1030.	4890.	10170.	9420.
#2	1031.	4868.	10070.	9284.
#3	1024.	4915.	10070.	9269.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2167.7	54937.	9050.2
Stddev	11.0	235.	62.9
%RSD	.50960	.42778	.69550

#1	2156.7	54670.	9109.6
#2	2167.6	55026.	8984.3
#3	2178.7	55114.	9056.7

Sample Name: CCVL Acquired: 5/31/2018 22:53:59 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	211.3	15.08	10.02	208.9	2.030	5174.
Stddev	8.9	2.30	.35	.7	.035	6.
%RSD	4.212	15.24	3.453	.3536	1.746	.1126

#1	203.1	12.43	9.773	209.6	2.034	5175.
#2	209.9	16.42	9.866	209.1	2.063	5168.
#3	220.8	16.40	10.41	208.1	1.992	5180.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.108	51.89	10.73	24.80	162.6	4822.
Stddev	.068	.23	.34	.32	7.0	26.
%RSD	1.663	.4359	3.170	1.281	4.320	.5406

#1	4.109	51.79	10.47	25.10	157.7	4792.
#2	4.175	52.15	11.11	24.83	170.7	4841.
#3	4.039	51.73	10.60	24.47	159.4	4834.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 22:53:59 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5174.	15.96	4712.	40.76	10.61	22.47
Stddev	5.	.12	28.	.07	.31	.41
%RSD	.0935	.7217	.5875	.1693	2.953	1.804

#1	5179.	16.09	4680.	40.74	10.70	22.39
#2	5171.	15.92	4732.	40.83	10.87	22.91
#3	5171.	15.87	4723.	40.70	10.26	22.11

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.68	21.92	49.74	32.48	55.35	21.77
Stddev	2.44	18.34	.77	.29	.78	.07
%RSD	11.81	83.68	1.545	.8995	1.405	.3446

#1	23.00	19.76	50.53	32.77	55.57	21.85
#2	20.89	41.24	49.00	32.19	54.49	21.73
#3	18.13	4.752	49.68	32.48	55.99	21.71

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 22:53:59 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.77	19.59	21.91	F 107.3
Stddev	.47	.10	.22	6.2
%RSD	.8692	.5188	1.014	5.804

#1	53.69	19.50	22.06	113.6
#2	53.35	19.70	22.01	107.3
#3	54.28	19.58	21.65	101.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2362.2	60138.	9303.1
Stddev	3.5	68.	79.8
%RSD	.14621	.11336	.85796

#1	2365.7	60144.	9395.3
#2	2362.3	60068.	9258.6
#3	2358.8	60204.	9255.5

Sample Name: MB 460-523911/1-A@2 Acquired: 5/31/2018 22:57:56 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.347	.6534	.1743	-.0320	-.0042	6.168
Stddev	4.531	.4769	.2820	.0943	.0360	1.039
%RSD	61.67	72.99	161.8	294.2	868.2	16.84

#1	-6.553	1.059	.3873	-.0810	-.0075	6.253
#2	-3.266	.7727	.2810	.0766	-.0384	7.162
#3	-12.22	.1281	-.1455	-.0918	.0335	5.089

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0642	.0750	-.0298	-.0738	8.909	21.60
Stddev	.0462	.1082	.2766	.0814	2.208	15.63
%RSD	71.98	144.2	927.8	110.4	24.78	72.37

#1	-.0520	-.0456	-.0248	-.0258	6.366	39.09
#2	-.1153	.1634	.2442	-.1678	10.34	16.71
#3	-.0253	.1074	-.3088	-.0278	10.02	8.998

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-523911/1-A@2 Acquired: 5/31/2018 22:57:56 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.263	-.1454	19.26	-1.022	.5489	.7286
Stddev	2.034	.0562	7.36	.226	1.139	.2816
%RSD	62.34	38.64	38.20	22.12	207.5	38.65

#1	4.688	-.1588	25.63	-.8876	.6411	.6442
#2	.9336	-.0837	11.21	-1.283	-.6336	.4989
#3	4.167	-.1937	20.94	-.8955	1.639	1.043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1736	-2.673	-.0973	.2384	-9.230	-.0143
Stddev	2.144	5.021	.8536	.3127	.410	.0853
%RSD	1235.	187.8	877.4	131.2	4.439	597.7

#1	.7849	-3.641	-1.014	.0826	-9.703	-.0466
#2	-2.630	2.761	.0481	.5984	-8.989	-.0787
#3	1.324	-7.140	.6743	.0341	-8.999	.0825

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-523911/1-A@2 Acquired: 5/31/2018 22:57:56 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.7791	.1071	.1617	F -230.3
Stddev	.5839	.0374	.0520	2.3
%RSD	74.95	34.96	32.13	1.010

#1	-1.269	.0640	.1922	-231.3
#2	-.1328	.1318	.1017	-232.0
#3	-.9360	.1255	.1913	-227.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2374.7	60667.	9213.4
Stddev	2.1	92.	55.2
%RSD	.08781	.15144	.59948

#1	2374.6	60714.	9239.1
#2	2372.6	60561.	9150.0
#3	2376.8	60725.	9251.1

Sample Name: 460-157109-A-3-B@4 Acquired: 5/31/2018 23:09:33 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	83720.	61.34	-.2850	384.5	1.592	644.0
Stddev	613.	1.44	.1374	4.0	.080	9.6
%RSD	.7323	2.354	48.19	1.046	4.996	1.495

#1	83200.	60.57	-.1547	386.5	1.503	633.1
#2	84400.	63.01	-.4285	387.1	1.655	651.4
#3	83560.	60.45	-.2718	379.9	1.619	647.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9251	36.95	46.44	119.2	54920.	1324.
Stddev	.2010	.66	.18	.2	199.	8.
%RSD	21.72	1.781	.3864	.1354	.3620	.6351

#1	-.6937	37.30	46.26	119.4	54760.	1314.
#2	-1.057	37.36	46.62	119.2	55150.	1327.
#3	-1.025	36.19	46.45	119.1	54860.	1330.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-3-B@4 Acquired: 5/31/2018 23:09:33 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1538.	289.2	406.4	447.8	30.96	.2798
Stddev	6.	1.0	15.9	4.1	.83	.7294
%RSD	.3949	.3478	3.910	.9189	2.678	260.7

#1	1533.	288.4	389.3	450.6	31.92	.0007
#2	1545.	290.3	409.3	449.7	30.57	-.2688
#3	1536.	288.8	420.7	443.1	30.40	1.107

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7466	F -45.79	67.29	116.7	4.784	.7404
Stddev	.3015	13.73	.72	.9	.579	.0998
%RSD	40.39	29.99	1.076	.7391	12.10	13.48

#1	.7612	-52.14	67.77	117.2	5.386	.8521
#2	.4380	-30.03	67.64	117.2	4.232	.6597
#3	1.041	-55.19	66.46	115.7	4.732	.7096

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-3-B@4 Acquired: 5/31/2018 23:09:33 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.427	11.13	841.5	1146.
Stddev	1.333	.02	2.7	24.
%RSD	20.74	.1617	.3229	2.112

#1	6.525	11.15	841.2	1121.
#2	5.048	11.12	844.3	1146.
#3	7.709	11.13	838.9	1170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2390.7	60135.	9508.3
Stddev	8.7	142.	50.0
%RSD	.36510	.23679	.52562

#1	2381.8	60013.	9459.8
#2	2399.3	60101.	9505.4
#3	2391.1	60291.	9559.6

Sample Name: CCB Acquired: 5/31/2018 22:49:54 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.902	1.994	.3579	.1093	.0426	-.3292
Stddev	12.79	1.979	.0858	.1322	.0394	3.311
%RSD	216.8	99.29	23.97	120.9	92.53	1006.

#1	.4399	-.0693	.3598	.2609	-.0027	3.159
#2	-20.63	3.878	.4428	.0496	.0611	-.7176
#3	2.481	2.173	.2712	.0176	.0693	-3.429

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0491	.0412	-.1148	.2648	3.353	30.30
Stddev	.0472	.1191	.2557	.3516	9.658	14.71
%RSD	96.06	289.2	222.8	132.8	288.0	48.55

#1	-.0293	-.0221	.1539	.5987	-5.607	29.07
#2	-.0151	.1786	-.1431	-.1022	13.58	45.58
#3	-.1030	-.0329	-.3551	.2979	2.083	16.24

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 22:49:54 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.094	-1.1205	19.53	-1.280	.8872	1.509
Stddev	6.827	.0591	16.13	.112	.7384	.911
%RSD	220.7	49.07	82.60	8.722	83.22	60.36

#1	10.80	-.0561	37.54	-1.212	1.362	1.463
#2	-2.204	-.1329	14.63	-1.408	.0366	2.441
#3	.6873	-.1723	6.418	-1.218	1.263	.6215

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0735	13.48	-.2076	-.1985	2.562	1.548
Stddev	.8993	9.81	.5335	.1773	.208	.102
%RSD	1223.	72.79	257.0	89.29	8.111	6.571

#1	.8112	20.11	.0620	-.1335	2.628	1.660
#2	-.0450	18.12	-.8222	-.0630	2.729	1.526
#3	-.9868	2.208	.1373	-.3991	2.329	1.460

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 22:49:54 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.245	.1273	1.253	1.431
Stddev	.818	.0833	.189	10.82
%RSD	65.75	65.41	15.10	756.3

#1	.5076	.2225	1.468	-10.54
#2	2.125	.0677	1.179	4.308
#3	1.101	.0917	1.112	10.52

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2374.6	60819.	9313.4
Stddev	12.6	445.	43.3
%RSD	.53256	.73187	.46493

#1	2383.4	60463.	9267.4
#2	2360.1	60676.	9319.4
#3	2380.1	61318.	9353.4

Sample Name: 460-157109-A-2-B@4 Acquired: 5/31/2018 23:28:40 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19390.	17.02	-.1568	121.8	2.662	1336.
Stddev	172.	1.20	.2604	1.9	.073	28.
%RSD	.8869	7.064	166.1	1.528	2.753	2.103

#1	19210.	17.56	-.2328	121.3	2.670	1309.
#2	19400.	17.86	.1332	123.8	2.584	1365.
#3	19560.	15.64	-.3707	120.2	2.730	1336.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.339	21.74	81.34	147.1	97110.	1596.
Stddev	.136	.27	.62	.9	1185.	22.
%RSD	5.829	1.257	.7644	.6360	1.220	1.359

#1	-2.237	21.44	80.71	146.1	95940.	1573.
#2	-2.286	21.97	81.96	147.9	98310.	1600.
#3	-2.494	21.82	81.35	147.3	97090.	1616.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-2-B@4 Acquired: 5/31/2018 23:28:40 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2252.	413.8	192.1	67.66	87.88	-4.568
Stddev	21.	5.0	7.9	1.17	1.43	.816
%RSD	.9402	1.197	4.095	1.728	1.625	17.87

#1	2230.	408.6	201.2	67.43	86.42	-3.855
#2	2272.	418.5	187.2	68.93	89.27	-5.458
#3	2253.	414.3	188.0	66.62	87.95	-4.389

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.429	F -165.7	80.61	100.8	4.119	1.096
Stddev	.402	14.1	1.06	1.3	.597	.306
%RSD	11.72	8.531	1.312	1.282	14.50	27.89

#1	2.999	-172.8	79.70	100.1	4.658	1.210
#2	3.795	-174.9	81.77	102.3	4.224	.7494
#3	3.493	-149.5	80.36	99.99	3.477	1.328

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-2-B@4 Acquired: 5/31/2018 23:28:40 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.00	19.98	658.4	1141.
Stddev	1.32	.05	7.2	12.
%RSD	12.03	.2517	1.086	1.044

#1	12.51	19.96	652.4	1128.
#2	10.06	19.95	666.3	1149.
#3	10.43	20.04	656.5	1147.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2408.6	60862.	9520.8
Stddev	15.5	614.	39.9
%RSD	.64442	1.0080	.41877

#1	2423.9	61558.	9551.7
#2	2392.9	60398.	9535.0
#3	2408.9	60631.	9475.8

Sample Name: CCV Acquired: 5/31/2018 23:36:26 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125500.	2576.	1253.	10160.	1015.	128700.
Stddev	276.	14.	3.	40.	3.	435.
%RSD	.2198	.5482	.2560	.3977	.3337	.3384

#1	125500.	2587.	1250.	10190.	1018.	129100.
#2	125700.	2580.	1257.	10180.	1015.	128600.
#3	125100.	2560.	1254.	10110.	1011.	128300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1274.	2521.	5139.	12590.	103400.	49770.
Stddev	5.	10.	8.	40.	37.	53.
%RSD	.4305	.3826	.1591	.3187	.0353	.1063

#1	1278.	2527.	5144.	12550.	103300.	49800.
#2	1276.	2526.	5143.	12630.	103400.	49790.
#3	1268.	2510.	5130.	12580.	103400.	49710.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 23:36:26 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128300.	5253.	126600.	2512.	7657.	1017.
Stddev	189.	12.	288.	11.	21.	5.
%RSD	.1473	.2334	.2278	.4503	.2678	.4580

#1	128300.	5263.	126500.	2521.	7666.	1022.
#2	128500.	5256.	126300.	2517.	7672.	1015.
#3	128200.	5239.	126900.	2499.	7634.	1013.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2595.	2239.	2536.	2654.	1026.	2589.
Stddev	6.	101.	7.	9.	2.	13.
%RSD	.2319	4.499	.2701	.3435	.1811	.5112

#1	2602.	2355.	2528.	2659.	1024.	2601.
#2	2592.	2175.	2540.	2660.	1026.	2592.
#3	2590.	2187.	2540.	2644.	1028.	2575.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 23:36:26 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1047.	5008.	10330.	9577.
Stddev	5.	32.	46.	7.
%RSD	.4559	.6428	.4417	.0782

#1	1052.	4989.	10340.	9571.
#2	1044.	4990.	10370.	9586.
#3	1045.	5045.	10280.	9576.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2159.1	54660.	8961.9
Stddev	7.8	195.	8.8
%RSD	.35946	.35655	.09852

#1	2166.9	54882.	8959.9
#2	2159.1	54575.	8971.6
#3	2151.4	54521.	8954.3

Sample Name: CCVL Acquired: 5/31/2018 23:44:23 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	218.8	15.68	10.13	205.7	2.051	5170.
Stddev	4.5	.69	.17	3.8	.026	41.
%RSD	2.067	4.376	1.689	1.850	1.281	.7864

#1	222.7	15.89	10.01	207.9	2.022	5155.
#2	219.8	14.91	10.06	208.0	2.058	5216.
#3	213.8	16.23	10.32	201.3	2.073	5139.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.159	50.67	10.79	24.57	179.3	4854.
Stddev	.113	.96	.29	.26	10.2	30.
%RSD	2.705	1.900	2.726	1.042	5.684	.6135

#1	4.180	51.15	10.67	24.53	175.6	4886.
#2	4.259	51.29	11.13	24.84	190.9	4827.
#3	4.037	49.56	10.58	24.33	171.5	4848.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 23:44:23 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5213.	16.14	4806.	39.54	10.79	21.06
Stddev	34.	.16	11.	.51	.27	.12
%RSD	.6442	1.013	.2328	1.296	2.489	.5467

#1	5199.	16.11	4797.	39.47	10.90	20.94
#2	5251.	16.32	4803.	40.09	10.49	21.17
#3	5188.	16.00	4819.	39.07	10.99	21.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.86	24.76	50.45	32.32	54.27	21.01
Stddev	1.31	12.38	.61	.29	.78	.29
%RSD	6.299	49.99	1.206	.8997	1.442	1.392

#1	19.39	10.57	49.75	32.39	54.64	21.10
#2	21.25	33.36	50.84	32.57	54.80	21.24
#3	21.93	30.34	50.78	32.00	53.37	20.68

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 23:44:23 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	54.28	18.94	21.77	F 121.4
Stddev	1.45	.11	.10	14.9
%RSD	2.680	.5543	.4776	12.29

#1	53.99	18.82	21.87	117.8
#2	55.85	19.03	21.77	137.8
#3	52.99	18.96	21.66	108.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2379.2	59603.	9153.7
Stddev	11.1	241.	61.9
%RSD	.46851	.40373	.67577

#1	2386.8	59814.	9117.6
#2	2366.4	59341.	9225.2
#3	2384.4	59652.	9118.4

Sample Name: LCSSRM 460-523911/2- Acquired: 5/31/2018 23:01:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36220.	272.5	241.4	876.6	297.7	22790.
Stddev	69.	4.6	.4	3.9	.2	76.
%RSD	.1892	1.690	.1665	.4478	.0550	.3322
#1	36190.	271.5	241.6	880.0	297.6	22740.
#2	36290.	277.5	241.7	877.6	297.6	22870.
#3	36160.	268.5	241.0	872.3	297.9	22750.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1241.	223.1	338.2	551.7	82390.	8820.
Stddev	7.	1.5	.6	2.5	262.	33.
%RSD	.5738	.6605	.1918	.4577	.3175	.3751
#1	1245.	224.3	338.1	553.4	82210.	8782.
#2	1246.	223.7	338.9	552.9	82690.	8836.
#3	1233.	221.5	337.6	548.8	82270.	8843.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-523911/2- Acquired: 5/31/2018 23:01:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10590.	1160.	10970.	741.2	841.6	800.2
Stddev	29.	4.	47.	6.1	3.8	5.5
%RSD	.2747	.3153	.4275	.8195	.4553	.6845

#1	10580.	1158.	10910.	746.6	845.1	803.6
#2	10630.	1164.	11000.	742.4	842.3	803.1
#3	10570.	1157.	10990.	734.6	837.5	793.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	708.3	F 702.6	625.5	634.7	599.2	402.9
Stddev	9.7	54.9	1.6	2.8	2.8	2.3
%RSD	1.362	7.820	.2565	.4392	.4742	.5816

#1	713.6	763.2	624.0	635.7	600.9	404.6
#2	714.2	688.3	627.2	636.8	600.8	403.8
#3	697.2	656.2	625.3	631.5	595.9	400.2

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		1125.				
Low Limit		750.0				

Sample Name: LCSSRM 460-523911/2- Acquired: 5/31/2018 23:01:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	739.3	442.0	3890.	1315.
Stddev	6.2	1.6	17.	69.
%RSD	.8338	.3698	.4271	5.256

#1	740.0	443.7	3899.	1387.
#2	745.1	440.4	3901.	1307.
#3	732.8	441.8	3871.	1250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2446.5	62058.	9829.4
Stddev	4.3	221.	39.1
%RSD	.17444	.35638	.39774

#1	2442.2	61868.	9860.5
#2	2446.7	62006.	9785.5
#3	2450.7	62301.	9842.1

Sample Name: 460-157109-A-3-C DU Acquired: 5/31/2018 23:05:39 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	82450.	58.60	-.0871	379.1	1.476	637.0
Stddev	309.	1.33	.1514	2.2	.025	3.3
%RSD	.3743	2.270	173.8	.5863	1.657	.5113
#1	82700.	57.08	-.2216	380.0	1.493	633.3
#2	82530.	59.50	.0769	380.8	1.487	638.3
#3	82100.	59.24	-.1168	376.6	1.448	639.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.069	36.35	45.54	117.8	54430.	1319.
Stddev	.035	.29	.58	.3	231.	44.
%RSD	3.245	.7970	1.274	.2484	.4247	3.301
#1	-1.029	36.48	46.20	118.1	54690.	1360.
#2	-1.088	36.55	45.34	117.6	54380.	1324.
#3	-1.090	36.02	45.09	117.7	54230.	1273.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-3-C DU Acquired: 5/31/2018 23:05:39 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1521.	285.9	412.7	443.2	30.57	.5137
Stddev	4.	.9	8.2	1.9	1.01	1.278
%RSD	.2710	.3314	1.995	.4298	3.310	248.8
#1	1521.	286.9	406.9	443.3	29.51	-.3273
#2	1525.	285.7	422.1	445.0	31.53	1.984
#3	1516.	285.0	409.0	441.2	30.68	-.1160

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.567	F -66.21	67.01	115.4	5.060	1.056
Stddev	1.279	14.38	.23	.9	.338	.132
%RSD	49.83	21.72	.3460	.8231	6.681	12.51
#1	1.152	-49.74	67.27	115.8	4.677	1.192
#2	2.909	-76.32	66.93	116.0	5.188	.9288
#3	3.640	-72.56	66.83	114.3	5.316	1.046

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-3-C DU Acquired: 5/31/2018 23:05:39 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.606	10.91	829.5	1121.
Stddev	.189	.07	1.5	12.
%RSD	2.855	.6816	.1751	1.082

#1	6.424	10.82	831.0	1133.
#2	6.801	10.94	829.5	1108.
#3	6.592	10.96	828.1	1123.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2387.4	59983.	9413.7
Stddev	10.1	238.	12.8
%RSD	.42097	.39676	.13551

#1	2391.8	59807.	9405.8
#2	2394.5	60254.	9406.8
#3	2375.9	59889.	9428.4

Sample Name: sd 460-157109-A-3-B Acquired: 5/31/2018 23:13:27 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15260.	11.54	-.1681	70.05	.3165	138.0
Stddev	100.	1.21	.0965	.32	.0406	3.2
%RSD	.6574	10.50	57.43	.4633	12.81	2.350

#1	15230.	11.13	-.0723	70.16	.3243	138.9
#2	15370.	10.59	-.2654	70.30	.3525	140.7
#3	15170.	12.90	-.1667	69.68	.2726	134.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2934	6.871	8.116	21.75	10110.	253.1
Stddev	.1191	.152	.462	.25	27.	14.3
%RSD	40.60	2.211	5.692	1.126	.2713	5.651

#1	-.2773	6.750	7.862	21.52	10110.	242.6
#2	-.4197	7.042	8.649	22.01	10080.	247.3
#3	-.1832	6.822	7.836	21.72	10130.	269.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-157109-A-3-B Acquired: 5/31/2018 23:13:27 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	292.2	53.37	80.18	81.76	6.245	.9152
Stddev	3.1	.20	11.23	1.27	.800	.4384
%RSD	1.069	.3667	14.01	1.558	12.81	47.90

#1	289.1	53.24	88.27	82.83	5.542	1.160
#2	292.3	53.27	67.36	82.10	6.077	.4091
#3	295.3	53.59	84.92	80.35	7.115	1.177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.178	-16.74	11.84	23.39	1.422	.0185
Stddev	3.090	12.65	.41	.15	.085	.2740
%RSD	262.4	75.58	3.472	.6496	5.974	1484.

#1	4.737	-18.77	11.47	23.56	1.346	.1745
#2	-.8223	-3.193	12.28	23.26	1.513	.1788
#3	-.3813	-28.25	11.77	23.34	1.406	-.2979

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-157109-A-3-B Acquired: 5/31/2018 23:13:27 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7051	2.005	151.4	199.0
Stddev	.6241	.056	.2	6.0
%RSD	88.52	2.793	.1391	3.032

#1	1.237	2.007	151.6	195.9
#2	.0181	2.059	151.2	206.0
#3	.8599	1.948	151.4	195.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2399.0	60803.	9321.6
Stddev	2.8	166.	82.4
%RSD	.11545	.27232	.88424

#1	2398.5	60808.	9297.8
#2	2402.0	60965.	9253.6
#3	2396.5	60634.	9413.2

Sample Name: 460-157109-A-11-A@4 Acquired: 6/1/2018 0:15:36 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27020.	1924.	.8264	281.9	3.967	939.6
Stddev	193.	35.	.1115	3.5	.173	3.5
%RSD	.7125	1.820	13.49	1.243	4.374	.3747

#1	27040.	1933.	.8546	283.2	3.771	935.8
#2	27200.	1953.	.9212	284.6	4.102	940.3
#3	26810.	1885.	.7035	278.0	4.026	942.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.461	26.40	85.97	218.6	82810.	1966.
Stddev	.175	.43	.80	1.3	518.	10.
%RSD	12.01	1.644	.9343	.5979	.6256	.4862

#1	-1.327	26.79	85.05	218.4	82280.	1964.
#2	-1.398	26.48	86.47	219.9	83310.	1976.
#3	-1.660	25.93	86.41	217.3	82830.	1957.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-11-A@4 Acquired: 6/1/2018 0:15:36 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4171.	382.6	113.2	342.9	463.8	16.67
Stddev	16.	2.2	11.9	5.1	5.3	.81
%RSD	.3883	.5715	10.54	1.480	1.146	4.857

#1	4155.	381.4	112.1	345.4	466.7	15.87
#2	4187.	385.1	125.7	346.4	467.0	16.65
#3	4170.	381.2	101.9	337.1	457.7	17.49

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.892	F -139.6	307.7	296.6	4.030	4.714
Stddev	1.708	3.5	2.7	3.5	.018	.240
%RSD	21.65	2.521	.8620	1.181	.4475	5.101

#1	6.919	-139.5	305.3	297.6	4.010	4.987
#2	9.864	-136.1	310.5	299.6	4.042	4.627
#3	6.892	-143.1	307.2	292.7	4.039	4.530

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-11-A@4 Acquired: 6/1/2018 0:15:36 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	23.60	32.62	567.6	1330.
Stddev	.79	.26	3.8	4.
%RSD	3.362	.8066	.6744	.3109

#1	23.81	32.54	566.6	1330.
#2	24.27	32.91	571.9	1326.
#3	22.72	32.40	564.4	1334.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2504.3	63744.	9713.5
Stddev	12.1	61.	56.5
%RSD	.48253	.09621	.58174

#1	2504.1	63785.	9766.0
#2	2492.4	63673.	9653.7
#3	2516.6	63773.	9720.7

Sample Name: 460-157109-A-13-A@4 Acquired: 6/1/2018 0:23:16 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34480.	-3.973	-.2611	164.9	6.502	5536.
Stddev	110.	.988	.3061	1.5	.004	36.
%RSD	.3180	24.86	117.2	.8915	.0655	.6422
#1	34590.	-3.428	-.0860	164.6	6.500	5507.
#2	34460.	-5.113	-.0827	166.5	6.507	5525.
#3	34380.	-3.378	-.6146	163.6	6.499	5575.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.557	21.10	66.77	113.3	107400.	2546.
Stddev	.342	.29	1.00	.7	1025.	9.
%RSD	13.37	1.372	1.502	.6145	.9540	.3531
#1	-2.474	21.09	66.57	113.5	107100.	2546.
#2	-2.265	21.40	65.89	112.5	106600.	2536.
#3	-2.933	20.82	67.86	113.9	108600.	2554.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-13-A@4 Acquired: 6/1/2018 0:23:16 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5534.	357.1	543.8	203.4	60.69	-4.809
Stddev	42.	2.5	13.6	1.7	1.40	1.061
%RSD	.7649	.6924	2.494	.8336	2.301	22.07

#1	5513.	355.9	547.5	203.7	59.88	-3.913
#2	5507.	355.5	528.7	204.9	62.30	-5.981
#3	5583.	360.0	555.1	201.6	59.89	-4.534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.967	F -186.1	254.4	343.1	.6069	.7883
Stddev	4.831	21.1	2.8	2.0	.5532	.2075
%RSD	245.6	11.36	1.085	.5873	91.14	26.32

#1	-2.523	-162.9	253.0	342.5	1.089	.6294
#2	7.079	-191.3	252.7	345.4	.7281	.7126
#3	1.345	-204.2	257.6	341.5	.0032	1.023

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-13-A@4 Acquired: 6/1/2018 0:23:16 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.391	72.59	835.1	840.4
Stddev	.630	.43	4.4	10.6
%RSD	9.861	.5858	.5293	1.267

#1	6.605	73.08	833.6	846.1
#2	5.682	72.31	831.6	828.1
#3	6.886	72.38	840.0	846.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2707.4	68350.	10414.
Stddev	5.1	282.	64.
%RSD	.18896	.41329	.61887

#1	2701.9	68249.	10341.
#2	2708.2	68669.	10437.
#3	2712.0	68132.	10463.

Sample Name: CCVL Acquired: 6/1/2018 0:35:07 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	219.5	14.74	9.775	205.3	2.066	5059.
Stddev	9.6	1.80	.200	4.7	.017	49.
%RSD	4.364	12.19	2.048	2.288	.8077	.9717

#1	229.4	14.96	9.658	208.7	2.059	5096.
#2	218.9	16.41	10.01	207.3	2.054	5077.
#3	210.3	12.84	9.661	199.9	2.085	5003.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.987	49.39	10.38	24.50	169.2	4830.
Stddev	.146	1.19	.10	.15	11.9	24.
%RSD	3.663	2.401	.9436	.6290	7.062	.4949

#1	4.120	50.23	10.37	24.64	171.9	4802.
#2	4.009	49.91	10.29	24.54	179.5	4846.
#3	3.831	48.03	10.49	24.34	156.1	4841.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 0:35:07 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5077.	15.96	4626.	38.68	10.19	21.68
Stddev	44.	.21	10.	1.01	.60	.44
%RSD	.8634	1.299	.2195	2.622	5.920	2.037

#1	5104.	16.06	4614.	39.50	10.82	21.19
#2	5101.	16.10	4631.	39.00	10.14	21.82
#3	5027.	15.72	4632.	37.55	9.615	22.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.80	25.45	48.37	31.94	52.29	20.71
Stddev	5.02	10.43	1.65	.87	1.53	.59
%RSD	25.36	40.97	3.408	2.731	2.926	2.860

#1	23.09	32.24	49.28	32.69	53.76	21.22
#2	22.28	13.44	49.38	32.15	52.41	20.84
#3	14.02	30.65	46.47	30.99	50.70	20.06

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 0:35:07 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.05	19.22	21.53	F 110.8
Stddev	1.26	.08	.20	4.8
%RSD	2.418	.3977	.9189	4.321

#1	52.58	19.31	21.68	109.1
#2	52.96	19.18	21.59	107.1
#3	50.62	19.17	21.31	116.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2400.1	60413.	9181.5
Stddev	11.0	97.	42.6
%RSD	.45922	.16075	.46442

#1	2387.5	60306.	9230.6
#2	2408.2	60435.	9154.7
#3	2404.4	60497.	9159.1

Sample Name: 460-157004-A-1-A@4 Acquired: 6/1/2018 0:39:06 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16780.	.7866	-.1898	84.39	.9364	496.8
Stddev	276.	.3967	.1179	1.66	.0518	4.7
%RSD	1.644	50.43	62.13	1.966	5.527	.9412

#1	16540.	1.018	-.1619	85.29	.9338	495.9
#2	17080.	1.014	-.0883	85.41	.9893	501.8
#3	16710.	.3285	-.3191	82.48	.8859	492.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6766	11.75	34.73	20.44	30460.	1511.
Stddev	.0228	.06	.79	.14	274.	55.
%RSD	3.377	.4814	2.288	.6818	.9007	3.670

#1	-.6850	11.75	34.20	20.32	30560.	1456.
#2	-.6940	11.80	35.65	20.41	30670.	1567.
#3	-.6507	11.68	34.35	20.59	30150.	1508.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157004-A-1-A@4 Acquired: 6/1/2018 0:39:06 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4241.	1010.	90.31	20.14	13.16	-.0987
Stddev	32.	5.	12.56	.74	.77	.7540
%RSD	.7441	.4667	13.91	3.692	5.830	763.6

#1	4237.	1009.	91.70	19.98	12.83	-.0815
#2	4275.	1015.	102.1	20.95	14.03	.6465
#3	4212.	1006.	77.12	19.49	12.61	-.8612

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.531	F -67.64	42.42	73.49	-.1376	.6253
Stddev	1.283	12.64	.68	1.63	.2246	.1670
%RSD	50.69	18.68	1.594	2.216	163.3	26.71

#1	3.478	-53.43	42.32	74.68	.1018	.4671
#2	1.071	-71.89	41.81	74.17	-.3437	.6088
#3	3.043	-77.61	43.15	71.63	-.1708	.7999

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157004-A-1-A@4 Acquired: 6/1/2018 0:39:06 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.032	5.866	934.9	659.7
Stddev	.755	.054	4.3	7.3
%RSD	37.13	.9263	.4563	1.109

#1	2.577	5.836	934.3	652.1
#2	2.348	5.929	939.5	660.3
#3	1.171	5.834	931.0	666.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2426.1	61586.	9249.9
Stddev	21.6	326.	110.2
%RSD	.88991	.52877	1.1911

#1	2405.5	61235.	9279.8
#2	2424.4	61643.	9127.9
#3	2448.5	61879.	9342.0

Sample Name: 460-156912-A-3-B@4 Acquired: 6/1/2018 0:50:47 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59600.	6.178	.0495	372.7	2.902	6212.
Stddev	428.	1.635	.2638	2.9	.076	37.
%RSD	.7184	26.47	532.9	.7898	2.608	.5907

#1	60000.	7.769	-.1657	374.7	2.977	6232.
#2	59640.	6.264	.3437	374.0	2.826	6235.
#3	59150.	4.502	-.0295	369.3	2.901	6170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.721	37.67	79.18	122.1	99230.	4915.
Stddev	.065	.41	.47	.7	516.	11.
%RSD	3.748	1.087	.5988	.5784	.5199	.2207

#1	-1.721	38.06	78.68	122.6	99740.	4912.
#2	-1.656	37.70	79.23	122.5	99230.	4906.
#3	-1.785	37.25	79.62	121.3	98710.	4927.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156912-A-3-B@4 Acquired: 6/1/2018 0:50:47 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17520.	2520.	450.0	79.87	270.6	-2.457
Stddev	106.	13.	13.7	1.23	3.0	1.692
%RSD	.6038	.5273	3.045	1.539	1.093	68.87

#1	17610.	2533.	452.7	80.32	272.3	-3.855
#2	17540.	2520.	462.1	80.81	272.3	-.5758
#3	17400.	2507.	435.1	78.48	267.2	-2.941

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.064	F -149.7	110.7	315.8	12.98	1.775
Stddev	2.250	12.8	.5	1.9	.11	.359
%RSD	44.42	8.557	.4435	.6088	.8578	20.25

#1	2.861	-150.4	110.4	316.6	13.07	1.402
#2	7.357	-162.1	111.2	317.3	13.01	1.804
#3	4.973	-136.5	110.4	313.7	12.86	2.118

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-156912-A-3-B@4 Acquired: 6/1/2018 0:50:47 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.943	54.30	948.9	1100.
Stddev	1.626	.42	5.5	7.
%RSD	16.35	.7670	.5817	.6058

#1	9.821	54.70	953.2	1104.
#2	11.63	54.33	950.7	1104.
#3	8.382	53.87	942.7	1092.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2467.7	61766.	9478.4
Stddev	1.8	242.	59.7
%RSD	.07376	.39130	.62973

#1	2466.3	61492.	9529.7
#2	2467.1	61858.	9492.5
#3	2469.8	61948.	9412.9

Sample Name: 460-156912-A-6-B@4 Acquired: 6/1/2018 1:02:22 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51150.	6.778	-.0602	321.5	2.466	4752.
Stddev	324.	2.983	.4029	3.1	.063	18.
%RSD	.6341	44.01	669.0	.9670	2.564	.3806

#1	51080.	9.860	-.5199	323.1	2.482	4771.
#2	51500.	6.569	.2319	323.6	2.396	4750.
#3	50860.	3.906	.1073	318.0	2.519	4735.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.781	28.61	73.25	185.6	90140.	4406.
Stddev	.180	.33	.76	1.3	457.	3.
%RSD	10.10	1.167	1.037	.6831	.5065	.0772

#1	-1.732	28.80	73.79	185.4	90460.	4402.
#2	-1.631	28.80	73.59	187.0	90330.	4409.
#3	-1.981	28.22	72.38	184.5	89620.	4407.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156912-A-6-B@4 Acquired: 6/1/2018 1:02:22 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15170.	1786.	3322.	66.32	184.5	-3.913
Stddev	79.	9.	24.	.73	1.9	1.333
%RSD	.5199	.4796	.7251	1.094	1.047	34.08

#1	15240.	1792.	3306.	66.53	185.2	-2.374
#2	15170.	1790.	3310.	66.92	185.9	-4.727
#3	15080.	1777.	3349.	65.52	182.3	-4.637

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.615	F -139.8	114.0	247.8	16.92	1.480
Stddev	.784	2.9	.7	2.1	.82	.270
%RSD	29.96	2.078	.6228	.8506	4.841	18.23

#1	3.384	-137.5	113.5	248.8	15.99	1.743
#2	1.818	-143.1	114.8	249.1	17.21	1.493
#3	2.645	-139.0	113.6	245.3	17.55	1.204

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-156912-A-6-B@4 Acquired: 6/1/2018 1:02:22 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10.22	55.82	1108.	1108.
Stddev	.87	.47	7.	7.
%RSD	8.536	.8412	.6576	.6452

#1	9.920	55.81	1113.	1114.
#2	9.530	56.30	1111.	1110.
#3	11.20	55.36	1100.	1100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2462.4	62058.	9484.6
Stddev	3.4	209.	34.6
%RSD	.14001	.33690	.36485

#1	2465.5	61836.	9523.4
#2	2463.1	62251.	9456.9
#3	2458.7	62085.	9473.5

Sample Name: LCS 460-523831/2-A Acquired: 6/1/2018 1:10:17 Type: QC

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2027.	1936.	48.18	1973.	48.26	19720.
Stddev	15.	16.	.21	9.	.39	195.
%RSD	.7477	.8058	.4275	.4379	.7979	.9861

#1	2017.	1943.	48.37	1975.	47.92	19810.
#2	2045.	1946.	48.21	1981.	48.67	19860.
#3	2019.	1918.	47.96	1964.	48.18	19500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.69	486.7	200.6	239.8	1016.	18740.
Stddev	.26	2.8	1.9	2.2	19.	77.
%RSD	.5108	.5811	.9652	.9294	1.846	.4124

#1	50.63	486.5	201.2	239.3	1022.	18660.
#2	50.98	489.7	202.1	242.3	1031.	18800.
#3	50.47	484.0	198.4	237.9	994.6	18770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-523831/2-A Acquired: 6/1/2018 1:10:17 Type: QC

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20070.	519.2	18320.	475.4	500.4	465.6
Stddev	179.	5.3	107.	3.0	2.5	3.7
%RSD	.8939	1.021	.5841	.6412	.5064	.7846

#1	20150.	520.1	18200.	474.9	501.7	466.3
#2	20210.	524.0	18350.	478.7	502.0	468.8
#3	19870.	513.5	18400.	472.7	497.5	461.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2019.	2045.	469.3	535.8	501.7	500.1
Stddev	15.	138.	3.0	2.2	2.2	3.8
%RSD	.7553	6.724	.6425	.4028	.4317	.7519

#1	2022.	2153.	472.2	537.1	501.7	500.7
#2	2032.	2092.	469.6	537.1	503.9	503.5
#3	2002.	1890.	466.2	533.4	499.5	496.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-523831/2-A Acquired: 6/1/2018 1:10:17 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	516.8	482.8	503.3	386.9
Stddev	4.3	3.2	4.8	9.6
%RSD	.8320	.6545	.9617	2.483

#1	519.9	479.4	503.0	379.0
#2	518.6	485.6	508.3	397.6
#3	511.8	483.4	498.6	384.1

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2386.0	59485.	9263.1
Stddev	11.8	450.	74.7
%RSD	.49605	.75668	.80667

#1	2398.8	59932.	9349.2
#2	2375.4	59031.	9216.1
#3	2383.7	59492.	9223.9

Sample Name: CCV Acquired: 6/1/2018 1:17:59 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124200.	2512.	1209.	9940.	972.9	122000.
Stddev	1070.	23.	2.	83.	6.8	450.
%RSD	.8619	.9146	.1622	.8366	.7033	.3686

#1	125300.	2525.	1208.	9985.	980.0	121600.
#2	124100.	2525.	1209.	9992.	972.3	122000.
#3	123200.	2485.	1212.	9844.	966.4	122500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1243.	2414.	4907.	12380.	99970.	48930.
Stddev	9.	22.	2.	14.	33.	296.
%RSD	.7021	.9122	.0310	.1130	.0326	.6049

#1	1248.	2423.	4908.	12360.	100000.	49270.
#2	1248.	2429.	4905.	12390.	99940.	48780.
#3	1233.	2388.	4907.	12380.	99950.	48750.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 1:17:59 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122900.	5096.	122900.	2396.	7344.	992.7
Stddev	228.	6.	1427.	19.	46.	9.4
%RSD	.1857	.1135	1.161	.7998	.6225	.9491

#1	122700.	5093.	124500.	2402.	7363.	998.1
#2	122800.	5092.	122700.	2411.	7376.	998.2
#3	123100.	5103.	121600.	2374.	7291.	981.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2531.	F 2072.	2411.	2549.	988.8	2525.
Stddev	10.	78.	5.	16.	6.2	25.
%RSD	.3882	3.751	.1887	.6412	.6264	.9749

#1	2540.	2032.	2415.	2555.	991.9	2538.
#2	2533.	2021.	2412.	2560.	992.8	2540.
#3	2521.	2161.	2406.	2530.	981.6	2496.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		2500.				
Range		-10.50%				

Sample Name: CCV Acquired: 6/1/2018 1:17:59 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1016.	4809.	9967.	9383.
Stddev	8.	25.	35.	85.
%RSD	.7487	.5253	.3500	.9013

#1	1021.	4821.	9974.	9353.
#2	1019.	4780.	9929.	9479.
#3	1007.	4826.	9997.	9318.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2185.8	55635.	9000.2
Stddev	1.9	190.	59.9
%RSD	.08483	.34166	.66606

#1	2184.0	55648.	8945.8
#2	2187.7	55819.	9064.4
#3	2185.8	55439.	8990.3

Sample Name: 460-157018-J-1-E Acquired: 6/1/2018 1:29:54 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	224.2	2.416	.1239	68.41	-.0089	63230.
Stddev	8.1	1.069	.1560	.72	.0643	58.
%RSD	3.635	44.23	126.0	1.048	724.3	.0912

#1	215.4	1.409	-.0259	68.78	-.0828	63200.
#2	225.6	2.302	.2855	68.87	.0220	63200.
#3	231.6	3.537	.1119	67.59	.0341	63300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0612	.0339	.5774	1.160	-7.306	13170.
Stddev	.1312	.1505	.2769	.253	3.754	120.
%RSD	214.5	444.2	47.95	21.77	51.38	.9145

#1	.0243	.1402	.5437	.9199	-7.489	13150.
#2	.0044	.0998	.8697	1.423	-3.463	13060.
#3	-.2122	-.1384	.3190	1.136	-10.96	13290.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157018-J-1-E Acquired: 6/1/2018 1:29:54 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15890.	.1330	40160.	3.489	-5.559	1.090
Stddev	30.	.0400	324.	.115	.668	1.631
%RSD	.1897	30.09	.8058	3.292	12.01	149.6

#1	15850.	.0876	40010.	3.557	-5.472	2.853
#2	15910.	.1631	39950.	3.554	-6.266	.7805
#3	15900.	.1484	40540.	3.357	-4.940	-.3638

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.772	11.27	.2207	4.483	13.74	30.70
Stddev	1.154	9.19	.5871	.553	.55	.23
%RSD	30.58	81.55	266.0	12.34	4.018	.7598

#1	-4.169	20.17	-.1312	3.852	14.21	30.96
#2	-2.473	11.82	-.1051	4.718	13.88	30.64
#3	-4.675	1.816	.8984	4.881	13.13	30.50

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157018-J-1-E Acquired: 6/1/2018 1:29:54 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1137	318.5	1.871	9226.
Stddev	.8145	3.6	.123	132.
%RSD	716.1	1.117	6.581	1.431

#1	.9599	317.9	1.779	9324.
#2	.0464	315.4	2.011	9278.
#3	-.6651	322.4	1.824	9076.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2345.1	58163.	9084.0
Stddev	13.6	639.	194.0
%RSD	.57800	1.0980	2.1356

#1	2355.3	58871.	9233.0
#2	2329.7	57988.	9154.2
#3	2350.2	57630.	8864.6

Sample Name: 460-157109-A-3-D MS Acquired: 5/31/2018 23:17:24 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	85970.	984.7	23.34	1392.	26.34	10640.
Stddev	273.	8.9	.33	18.	.16	31.
%RSD	.3176	.9043	1.425	1.291	.6127	.2904

#1	85860.	986.5	23.37	1404.	26.37	10670.
#2	86280.	992.6	23.00	1402.	26.49	10660.
#3	85770.	975.1	23.66	1372.	26.17	10610.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.76	282.3	140.4	235.6	52610.	10620.
Stddev	.37	4.3	.5	.5	237.	46.
%RSD	1.547	1.518	.3880	.2191	.4498	.4362

#1	23.87	285.3	140.9	236.1	52870.	10640.
#2	24.07	284.2	140.6	235.6	52550.	10660.
#3	23.35	277.4	139.8	235.1	52410.	10570.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-3-D MS Acquired: 5/31/2018 23:17:24 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11180.	516.3	9620.	616.8	274.4	235.5
Stddev	49.	1.3	74.	9.5	2.4	6.7
%RSD	.4409	.2536	.7657	1.545	.8568	2.828

#1	11230.	517.6	9651.	624.5	275.8	238.8
#2	11200.	516.5	9674.	619.7	275.6	239.8
#3	11130.	514.9	9536.	606.1	271.7	227.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	954.5	953.4	309.4	374.1	239.8	254.7
Stddev	12.2	46.2	2.0	4.1	2.2	3.3
%RSD	1.279	4.849	.6551	1.101	.9374	1.290

#1	953.9	933.8	311.6	376.5	240.7	256.5
#2	966.9	1006.	309.2	376.4	241.5	256.7
#3	942.5	920.1	307.5	369.3	237.3	250.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-3-D MS Acquired: 5/31/2018 23:17:24 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	262.6	252.1	1085.	1231.
Stddev	2.6	1.7	5.	24.
%RSD	1.002	.6702	.4342	1.957

#1	265.4	252.7	1088.	1212.
#2	262.3	253.5	1087.	1223.
#3	260.1	250.2	1080.	1258.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2364.1	58855.	9352.5
Stddev	11.1	298.	105.0
%RSD	.46835	.50557	1.1227

#1	2352.2	58512.	9301.5
#2	2366.0	59050.	9282.8
#3	2374.1	59001.	9473.3

Sample Name: 460-157038-B-1-B DU Acquired: 6/1/2018 1:45:13 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	464.5	.6869	-.0270	26.77	-.0400	171900.
Stddev	17.9	2.473	.0749	.19	.0195	2299.
%RSD	3.859	360.0	277.5	.6917	48.70	1.338

#1	484.6	1.536	-.0014	26.86	-.0625	171700.
#2	458.9	-2.098	.0318	26.56	-.0280	174200.
#3	450.1	2.623	-.1113	26.90	-.0295	169600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.041	14.33	.9256	74.11	137.1	20590.
Stddev	.030	.26	.4050	1.18	16.1	113.
%RSD	2.917	1.802	43.76	1.593	11.73	.5478

#1	1.074	14.37	1.328	73.56	150.1	20720.
#2	1.014	14.06	.5182	75.46	119.2	20540.
#3	1.034	14.57	.9304	73.30	142.1	20510.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-B-1-B DU Acquired: 6/1/2018 1:45:13 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	89600.	1446.	F 260800.	608.3	-1.954	2.420
Stddev	1264.	17.	2571.	4.4	.700	1.386
%RSD	1.410	1.156	.9856	.7312	35.81	57.26

#1	89440.	1442.	263400.	613.0	-2.749	3.576
#2	90940.	1464.	260900.	607.8	-1.434	.8840
#3	88430.	1431.	258300.	604.2	-1.678	2.801

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.604	10.95	.6734	32.29	55.26	3.396
Stddev	1.335	22.70	.2442	.37	.31	.247
%RSD	37.05	207.4	36.27	1.156	.5544	7.273

#1	4.251	19.84	.3914	32.66	55.62	3.638
#2	2.068	-14.85	.8200	31.91	55.11	3.144
#3	4.493	27.85	.8087	32.29	55.07	3.405

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-B-1-B DU Acquired: 6/1/2018 1:45:13 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0038	220.2	2.030	5909.
Stddev	.8061	.8	.086	54.
%RSD	21260.	.3804	4.254	.9171

#1	-.7407	221.1	2.037	5914.
#2	-.1277	219.8	2.114	5853.
#3	.8570	219.5	1.941	5961.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2240.0	54383.	8955.5
Stddev	7.4	545.	28.5
%RSD	.33228	1.0020	.31836

#1	2247.5	54785.	8951.7
#2	2239.9	53763.	8929.1
#3	2232.6	54601.	8985.7

Sample Name: sd 460-157038-J-1-B Acquired: 6/1/2018 1:53:02 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	113.9	1.191	-.0109	4.917	.0768	30600.
Stddev	8.1	2.902	.1746	.063	.0545	153.
%RSD	7.106	243.6	1609.	1.277	70.92	.5014

#1	111.6	.5545	-.0974	4.952	.0834	30680.
#2	107.1	-1.340	-.1253	4.953	.1277	30700.
#3	122.8	4.359	.1901	4.844	.0193	30420.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1291	2.739	.3074	13.38	26.92	3704.
Stddev	.0663	.149	.1731	.43	5.86	60.
%RSD	51.32	5.448	56.31	3.195	21.75	1.628

#1	.1038	2.885	.1271	13.81	20.65	3719.
#2	.0792	2.745	.3228	13.38	27.88	3755.
#3	.2043	2.586	.4724	12.96	32.24	3637.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-157038-J-1-B Acquired: 6/1/2018 1:53:02 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15910.	265.9	46990.	113.1	-.2574	1.927
Stddev	105.	2.2	697.	1.3	.9150	.511
%RSD	.6609	.8441	1.484	1.166	355.4	26.52

#1	16000.	268.0	46630.	113.5	-1.149	1.361
#2	15940.	266.3	47800.	114.1	-.3022	2.354
#3	15790.	263.5	46550.	111.6	.6791	2.066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7639	3.316	.1252	10.21	10.23	.7317
Stddev	2.305	3.242	.7474	.08	.46	.2961
%RSD	301.8	97.76	596.8	.8213	4.542	40.47

#1	-1.897	6.480	.9792	10.13	10.77	.5107
#2	2.140	3.465	-.1939	10.20	9.948	1.068
#3	2.049	.0021	-.4096	10.30	9.982	.6161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-157038-J-1-B Acquired: 6/1/2018 1:53:02 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6289	40.02	1.441	1029.
Stddev	.9392	.61	.051	16.
%RSD	149.3	1.518	3.525	1.564

#1	-.1555	39.93	1.431	1023.
#2	1.670	40.67	1.396	1047.
#3	.3725	39.46	1.496	1016.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2353.1	58382.	9033.0
Stddev	2.5	106.	92.0
%RSD	.10627	.18120	1.0181

#1	2354.2	58312.	9129.1
#2	2354.8	58504.	8945.8
#3	2350.2	58331.	9024.1

Sample Name: pds 460-157038-J-1-B Acquired: 6/1/2018 2:00:41 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2382.	1923.	48.04	1881.	44.44	186400.
Stddev	4.	8.	.46	8.	.11	976.
%RSD	.1795	.4159	.9508	.4187	.2452	.5237

#1	2387.	1915.	47.52	1876.	44.37	185700.
#2	2380.	1925.	48.37	1877.	44.37	185900.
#3	2379.	1930.	48.22	1890.	44.56	187500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.53	462.1	188.6	308.2	1077.	39310.
Stddev	.04	2.1	.5	.3	18.	34.
%RSD	.0879	.4584	.2845	.1051	1.688	.0865

#1	47.58	460.8	189.0	308.4	1077.	39270.
#2	47.51	460.9	188.8	307.8	1059.	39300.
#3	47.51	464.5	188.0	308.4	1095.	39340.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-157038-J-1-B Acquired: 6/1/2018 2:00:41 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	107400.	1910.	F 275400.	1020.	453.6	452.2
Stddev	504.	7.	658.	5.	3.4	3.2
%RSD	.4694	.3411	.2388	.4937	.7596	.7126

#1	107100.	1906.	276200.	1017.	449.7	451.9
#2	107100.	1906.	275200.	1016.	456.2	455.6
#3	108000.	1917.	274900.	1025.	454.9	449.2

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1989.	1853.	454.7	519.8	522.3	479.6
Stddev	6.	63.	.9	2.2	2.4	.6
%RSD	.3105	3.411	.2054	.4204	.4584	.1171

#1	1990.	1898.	455.2	519.2	520.5	479.0
#2	1983.	1880.	453.6	518.0	521.4	479.6
#3	1996.	1781.	455.1	522.2	525.0	480.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-157038-J-1-B Acquired: 6/1/2018 2:00:41 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	485.4	671.6	481.4	5962.
Stddev	.7	3.0	1.7	41.
%RSD	.1349	.4517	.3491	.6954

#1	486.1	671.0	480.2	5944.
#2	485.1	668.9	480.7	5932.
#3	484.9	674.9	483.3	6009.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2215.0	54082.	8936.6
Stddev	16.0	417.	31.6
%RSD	.72441	.77185	.35382

#1	2225.8	54445.	8960.5
#2	2222.7	54175.	8948.6
#3	2196.6	53626.	8900.7

Sample Name: 460-156900-E-1-D Acquired: 6/1/2018 2:04:22 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	150.7	4.819	-.1344	48.69	.0459	37710.
Stddev	7.8	.297	.3422	.44	.0324	136.
%RSD	5.178	6.171	254.6	.9092	70.54	.3604

#1	156.2	4.484	.1441	48.90	.0172	37800.
#2	141.8	5.054	-.5165	48.99	.0810	37780.
#3	154.2	4.918	-.0309	48.18	.0394	37550.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0014	12.82	3.612	9.450	202.9	58240.
Stddev	.0069	.28	.209	.110	8.6	123.
%RSD	492.8	2.205	5.780	1.161	4.237	.2117

#1	-.0080	13.09	3.523	9.535	208.3	58290.
#2	.0057	12.53	3.850	9.326	207.4	58340.
#3	-.0019	12.84	3.462	9.488	192.9	58100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156900-E-1-D Acquired: 6/1/2018 2:04:22 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10370.	895.2	41080.	4.308	-9.826	3.807
Stddev	59.	4.9	133.	.204	.925	1.019
%RSD	.5728	.5429	.3241	4.729	9.410	26.76

#1	10400.	898.0	41070.	4.217	-8.943	2.811
#2	10400.	898.1	41220.	4.541	-10.79	3.763
#3	10300.	889.6	40960.	4.165	-9.747	4.847

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0776	12.56	17.60	5.607	48.80	27.06
Stddev	2.726	7.94	.84	.383	.65	.31
%RSD	3514.	63.23	4.761	6.827	1.332	1.127

#1	1.886	21.71	16.63	5.829	49.35	27.35
#2	-3.058	7.356	18.01	5.826	48.96	27.08
#3	1.404	8.627	18.14	5.165	48.08	26.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156900-E-1-D Acquired: 6/1/2018 2:04:22 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0489	184.2	1.975	14890.
Stddev	1.478	.3	.085	118.
%RSD	3025.	.1369	4.323	.7932

#1	.7234	184.2	1.909	14890.
#2	.8826	184.4	2.071	15010.
#3	-1.753	183.9	1.944	14770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2355.3	57609.	9072.5
Stddev	9.9	190.	21.3
%RSD	.42036	.32907	.23453

#1	2366.1	57822.	9071.0
#2	2352.9	57461.	9094.4
#3	2346.8	57543.	9052.0

Sample Name: CCB Acquired: 6/1/2018 2:12:15 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-11.01	1.503	.1059	-.0211	-.0017	-5.782
Stddev	2.98	1.887	.1299	.0445	.0662	3.381
%RSD	27.06	125.6	122.7	210.6	3907.	58.47

#1	-9.043	1.174	.1498	.0300	-.0616	-7.035
#2	-9.558	-.1977	.2082	-.0510	.0694	-1.954
#3	-14.44	3.534	-.0403	-.0424	-.0129	-8.357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0869	-.1701	.0164	-.5950	4.540	66.34
Stddev	.0722	.2372	.1329	.1905	8.140	21.30
%RSD	83.07	139.5	809.4	32.02	179.3	32.11

#1	-.0045	-.2783	.0412	-.3780	13.59	82.55
#2	-.1388	-.3338	-.1271	-.7348	-2.179	42.21
#3	-.1175	.1020	.1352	-.6722	2.208	74.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 2:12:15 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.933	-1.1747	44.98	-1.112	.1592	2.098
Stddev	2.164	.0409	15.98	.325	.7282	.930
%RSD	73.77	23.43	35.52	29.22	457.3	44.32

#1	1.939	-.1438	53.20	-1.285	.9945	2.018
#2	5.415	-.2212	55.18	-.7373	-.3425	3.064
#3	1.445	-.1592	26.56	-1.315	-.1743	1.210

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.323	1.582	-1.1742	-.3775	1.388	1.719
Stddev	.835	8.667	.3622	.1738	.396	.157
%RSD	63.08	547.9	207.9	46.02	28.52	9.152

#1	1.128	5.249	-.0487	-.1900	1.845	1.817
#2	.6035	7.813	-.5825	-.5331	1.187	1.804
#3	2.238	-8.316	.1086	-.4095	1.134	1.538

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 2:12:15 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8032	.0495	1.129	-12.02
Stddev	.7087	.0177	.065	7.15
%RSD	88.23	35.65	5.720	59.46

#1	.2558	.0675	1.175	-12.74
#2	.5502	.0323	1.157	-4.540
#3	1.604	.0488	1.055	-18.78

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2408.3	60618.	9015.8
Stddev	6.9	292.	109.1
%RSD	.28645	.48113	1.2102

#1	2416.3	60944.	9140.3
#2	2403.8	60524.	8970.1
#3	2405.0	60384.	8936.9

Sample Name: pds 460-157109-A-3-B Acquired: 5/31/2018 23:21:09 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	86600.	1786.	43.40	2192.	46.52	18700.
Stddev	610.	19.	.29	27.	.22	221.
%RSD	.7044	1.065	.6769	1.211	.4671	1.183

#1	85920.	1791.	43.72	2202.	46.45	18870.
#2	87110.	1801.	43.32	2212.	46.76	18770.
#3	86770.	1764.	43.14	2162.	46.35	18450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.86	482.9	231.8	340.8	55630.	18440.
Stddev	.60	6.8	3.1	2.0	449.	57.
%RSD	1.369	1.413	1.334	.5840	.8070	.3109

#1	43.92	487.6	234.0	342.9	55910.	18400.
#2	44.42	486.0	233.1	340.6	55870.	18500.
#3	43.23	475.1	228.3	338.9	55110.	18410.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-157109-A-3-B Acquired: 5/31/2018 23:21:09 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19050.	760.6	17540.	861.8	479.6	425.6
Stddev	194.	5.5	55.	12.7	5.2	4.6
%RSD	1.017	.7264	.3133	1.478	1.086	1.086

#1	19200.	764.9	17480.	871.9	484.1	428.2
#2	19110.	762.6	17580.	866.0	480.8	428.3
#3	18830.	754.4	17550.	847.5	473.9	420.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1740.	1738.	508.1	587.0	433.9	463.4
Stddev	10.	94.	5.0	8.4	5.6	5.5
%RSD	.5801	5.413	.9790	1.436	1.283	1.191

#1	1745.	1767.	511.0	591.1	437.4	466.5
#2	1746.	1633.	511.0	592.6	436.8	466.7
#3	1728.	1815.	502.4	577.3	427.5	457.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-157109-A-3-B Acquired: 5/31/2018 23:21:09 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	470.4	454.8	1309.	1159.
Stddev	6.6	2.3	8.	12.
%RSD	1.408	.4994	.6318	1.040

#1	476.5	454.4	1316.	1145.
#2	471.3	457.2	1311.	1167.
#3	463.4	452.7	1300.	1166.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2368.8	58849.	9335.9
Stddev	12.1	319.	92.6
%RSD	.51265	.54262	.99211

#1	2358.4	58525.	9232.5
#2	2365.9	58858.	9363.8
#3	2382.1	59164.	9411.3

Sample Name: 460-156900-D-2-D Acquired: 6/1/2018 2:20:16 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	140.7	21.81	.0465	21.00	.0419	29050.
Stddev	9.6	2.50	.0880	.09	.0682	139.
%RSD	6.827	11.44	189.2	.4301	162.7	.4775
#1	132.6	19.97	.0218	21.05	-.0368	29180.
#2	151.3	24.65	.1442	21.04	.0837	29050.
#3	138.2	20.82	-.0265	20.89	.0788	28900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0476	.4186	1.244	3.449	43.97	3134.
Stddev	.0089	.0743	.277	.061	8.69	33.
%RSD	18.71	17.75	22.26	1.756	19.77	1.046
#1	.0428	.4614	1.559	3.391	54.01	3171.
#2	.0578	.3328	1.037	3.512	39.14	3114.
#3	.0421	.4617	1.137	3.443	38.78	3115.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156900-D-2-D Acquired: 6/1/2018 2:20:16 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8072.	50.14	42060.	-1.1305	-4.913	5.948
Stddev	22.	.31	198.	.1824	.849	.750
%RSD	.2686	.6159	.4696	139.8	17.28	12.62

#1	8086.	50.40	41840.	-.3407	-5.784	6.131
#2	8082.	50.22	42140.	-.0135	-4.866	5.123
#3	8047.	49.80	42210.	-.0373	-4.088	6.590

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.657	10.46	2.288	4.418	23.11	155.1
Stddev	5.146	3.61	.815	.213	.42	1.9
%RSD	193.6	34.51	35.60	4.815	1.813	1.245

#1	.0820	12.44	3.035	4.483	23.13	155.9
#2	8.582	12.65	1.419	4.591	23.52	156.4
#3	-.6921	6.293	2.411	4.181	22.68	152.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156900-D-2-D Acquired: 6/1/2018 2:20:16 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1340	171.1	2.600	7863.
Stddev	1.070	.4	.080	36.
%RSD	798.4	.2532	3.082	.4582

#1	1.269	171.5	2.684	7859.
#2	-.8547	171.2	2.524	7829.
#3	-.0127	170.6	2.592	7901.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2388.2	59023.	9064.0
Stddev	12.6	496.	60.4
%RSD	.52938	.83991	.66609

#1	2401.1	59594.	9120.7
#2	2387.6	58758.	9000.5
#3	2375.9	58715.	9070.8

Sample Name: 460-157113-G-2-B Acquired: 6/1/2018 2:36:08 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	215.6	2.064	-.0048	61.79	-.0007	60620.
Stddev	4.7	1.352	.1592	.51	.0638	268.
%RSD	2.199	65.51	3296.	.8328	9570.	.4424
#1	210.1	.6906	-.0759	62.05	-.0620	60460.
#2	218.7	2.108	-.1161	62.12	-.0054	60930.
#3	217.9	3.394	.1775	61.20	.0654	60470.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0013	.3950	.9336	.6489	.0050	14330.
Stddev	.0782	.2751	.1452	.2087	5.389	31.
%RSD	5944.	69.64	15.55	32.17	108400.	.2150
#1	-.0522	.1057	1.097	.6445	-3.072	14310.
#2	.0910	.6532	.8853	.8597	-3.140	14310.
#3	-.0349	.4261	.8188	.4424	6.227	14360.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157113-G-2-B Acquired: 6/1/2018 2:36:08 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15730.	31.18	39380.	3.413	-5.324	2.166
Stddev	66.	.13	121.	.330	.304	.877
%RSD	.4191	.4216	.3067	9.665	5.710	40.50

#1	15720.	31.11	39240.	3.788	-5.271	2.582
#2	15800.	31.33	39460.	3.168	-5.050	1.159
#3	15670.	31.09	39430.	3.284	-5.651	2.759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.407	10.56	.1778	3.630	15.07	31.25
Stddev	1.590	6.58	.9987	.213	.31	.42
%RSD	113.0	62.30	561.9	5.875	2.066	1.351

#1	-1.219	3.621	-.9747	3.394	14.82	31.37
#2	.0801	16.71	.7179	3.808	15.42	31.60
#3	-3.084	11.35	.7901	3.688	14.97	30.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157113-G-2-B Acquired: 6/1/2018 2:36:08 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.102	301.4	1.676	9138.
Stddev	1.063	.7	.079	19.
%RSD	96.42	.2376	4.688	.2073

#1	-1.1062	302.0	1.636	9159.
#2	1.891	300.6	1.625	9132.
#3	1.521	301.6	1.766	9122.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2346.8	57657.	8959.9
Stddev	9.1	329.	69.5
%RSD	.38659	.57049	.77603

#1	2356.8	58027.	9038.8
#2	2339.2	57546.	8933.2
#3	2344.5	57397.	8907.6

Sample Name: 460-157109-A-1-B@4 Acquired: 5/31/2018 23:24:50 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33220.	15.42	-.2824	143.0	3.401	1660.
Stddev	59.	1.43	.1472	.9	.047	4.
%RSD	.1782	9.254	52.11	.5980	1.372	.2129

#1	33270.	15.01	-.3985	143.2	3.356	1657.
#2	33240.	14.24	-.1169	143.7	3.449	1664.
#3	33160.	17.01	-.3319	142.0	3.398	1661.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.777	168.1	55.10	68.53	90650.	1978.
Stddev	.100	.8	.33	.36	340.	11.
%RSD	5.647	.4787	.6016	.5291	.3755	.5529

#1	-1.788	167.8	54.72	68.92	91040.	1990.
#2	-1.672	169.0	55.36	68.48	90520.	1973.
#3	-1.871	167.4	55.21	68.20	90400.	1970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-1-B@4 Acquired: 5/31/2018 23:24:50 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2918.	1405.	253.5	591.0	92.24	-2.769
Stddev	8.	2.	7.4	1.8	1.53	.318
%RSD	.2875	.1461	2.909	.3074	1.656	11.49

#1	2919.	1407.	259.5	590.8	90.49	-2.514
#2	2926.	1405.	255.8	592.9	92.92	-3.126
#3	2909.	1403.	245.3	589.3	93.31	-2.668

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.532	F -124.4	73.25	285.0	2.686	1.629
Stddev	2.069	2.7	.37	2.1	.153	.137
%RSD	58.58	2.145	.5017	.7416	5.696	8.393

#1	1.327	-127.5	73.56	285.2	2.560	1.786
#2	5.431	-122.6	73.34	287.1	2.856	1.561
#3	3.837	-123.2	72.84	282.9	2.641	1.539

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-1-B@4 Acquired: 5/31/2018 23:24:50 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.074	17.89	722.9	1030.
Stddev	.507	.09	.3	22.
%RSD	8.345	.5202	.0448	2.101

#1	6.648	17.89	723.1	1051.
#2	5.886	17.98	723.0	1030.
#3	5.688	17.80	722.5	1008.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2478.5	62590.	9754.7
Stddev	1.8	53.	77.9
%RSD	.07204	.08402	.79832

#1	2480.4	62529.	9836.8
#2	2476.9	62624.	9745.5
#3	2478.1	62616.	9681.9

Sample Name: CCV Acquired: 6/1/2018 2:59:59 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125700.	2478.	1206.	9829.	956.8	120200.
Stddev	280.	24.	5.	98.	2.0	552.
%RSD	.2225	.9756	.4003	.9942	.2108	.4590

#1	125500.	2503.	1208.	9891.	959.0	120500.
#2	125700.	2475.	1210.	9880.	955.1	120600.
#3	126000.	2455.	1201.	9716.	956.2	119600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1227.	2344.	4865.	12420.	100300.	48990.
Stddev	13.	28.	29.	60.	648.	142.
%RSD	1.043	1.188	.5977	.4834	.6461	.2888

#1	1236.	2365.	4880.	12430.	100600.	48980.
#2	1232.	2356.	4882.	12470.	100700.	48860.
#3	1212.	2313.	4831.	12350.	99520.	49140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 2:59:59 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121400.	5105.	122000.	2304.	7138.	966.2
Stddev	651.	22.	442.	27.	70.	8.5
%RSD	.5360	.4303	.3624	1.187	.9865	.8827

#1	121700.	5109.	122400.	2323.	7191.	973.9
#2	121900.	5124.	121500.	2316.	7166.	967.8
#3	120700.	5081.	122000.	2273.	7058.	957.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2494.	F 1939.	2392.	2507.	959.5	2488.
Stddev	20.	14.	16.	28.	9.6	26.
%RSD	.7965	.7273	.6698	1.106	1.002	1.050

#1	2513.	1930.	2399.	2528.	966.1	2507.
#2	2497.	1955.	2404.	2518.	963.8	2498.
#3	2474.	1932.	2374.	2476.	948.4	2458.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		2500.				
Range		-10.50%				

Sample Name: CCV Acquired: 6/1/2018 2:59:59 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1006.	4771.	9861.	9251.
Stddev	14.	42.	89.	23.
%RSD	1.353	.8697	.8990	.2443

#1	1019.	4735.	9941.	9271.
#2	1008.	4816.	9877.	9256.
#3	991.8	4763.	9766.	9227.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2206.4	55352.	8871.2
Stddev	9.0	267.	17.6
%RSD	.40947	.48196	.19804

#1	2196.0	55071.	8872.9
#2	2211.7	55382.	8887.8
#3	2211.5	55602.	8852.8

Sample Name: CCVL Acquired: 6/1/2018 3:07:57 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	226.5	14.39	9.551	205.0	1.991	4994.
Stddev	9.0	2.97	.065	2.6	.064	16.
%RSD	3.974	20.67	.6750	1.250	3.192	.3132

#1	222.8	11.38	9.546	206.2	1.919	5009.
#2	236.7	14.47	9.489	206.7	2.018	4995.
#3	219.9	17.33	9.617	202.0	2.037	4978.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.109	48.55	10.40	23.98	159.0	4810.
Stddev	.023	.55	.38	.13	9.6	27.
%RSD	.5517	1.127	3.605	.5384	6.063	.5709

#1	4.100	48.67	10.03	24.01	161.8	4782.
#2	4.134	49.03	10.78	24.09	167.0	4813.
#3	4.091	47.95	10.41	23.84	148.3	4837.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 3:07:57 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5027.	15.90	4633.	37.56	10.25	21.68
Stddev	17.	.07	39.	.50	.59	1.38
%RSD	.3422	.4474	.8355	1.323	5.728	6.373

#1	5045.	15.97	4637.	37.64	10.92	20.28
#2	5023.	15.83	4670.	38.02	9.802	23.05
#3	5012.	15.88	4593.	37.04	10.03	21.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.55	F 35.45	48.26	31.45	50.58	20.71
Stddev	4.04	14.29	.75	.73	.84	.54
%RSD	18.74	40.31	1.563	2.332	1.660	2.607

#1	26.16	45.99	48.26	31.65	50.79	21.01
#2	19.85	19.18	49.01	32.06	51.29	21.03
#3	18.64	41.17	47.50	30.64	49.65	20.09

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		20.00				
Range		30.50%				

Sample Name: CCVL Acquired: 6/1/2018 3:07:57 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.19	18.95	21.29	F 82.71
Stddev	1.66	.18	.16	8.02
%RSD	3.179	.9657	.7745	9.692

#1	52.75	18.81	21.15	90.96
#2	53.50	18.89	21.47	82.21
#3	50.33	19.16	21.26	74.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2414.2	60318.	9007.1
Stddev	3.8	176.	64.1
%RSD	.15812	.29181	.71131

#1	2416.2	60232.	8941.4
#2	2409.8	60520.	9010.4
#3	2416.7	60201.	9069.4

Sample Name: 460-157109-A-4-B@4 Acquired: 5/31/2018 23:32:34 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	60320.	6.542	-.0109	241.0	2.866	322.8
Stddev	170.	3.431	.2368	4.8	.033	4.9
%RSD	.2816	52.44	2181.	2.002	1.152	1.511

#1	60520.	8.241	.2001	245.1	2.845	324.2
#2	60230.	8.792	-.2670	242.2	2.904	326.7
#3	60220.	2.593	.0343	235.7	2.849	317.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.241	10.75	131.0	103.0	183000.	2037.
Stddev	.120	.05	2.0	1.0	2448.	16.
%RSD	2.820	.4552	1.506	.9443	1.338	.7823

#1	-4.147	10.79	131.2	103.6	183800.	2023.
#2	-4.201	10.69	132.9	103.6	184900.	2054.
#3	-4.376	10.77	129.0	101.9	180200.	2035.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-4-B@4 Acquired: 5/31/2018 23:32:34 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3761.	250.9	102.5	143.3	73.91	-10.58
Stddev	56.	3.2	5.2	2.8	1.02	.80
%RSD	1.491	1.294	5.091	1.987	1.383	7.573

#1	3779.	252.5	100.8	145.8	74.94	-11.33
#2	3806.	253.0	108.3	144.0	73.90	-10.68
#3	3699.	247.1	98.27	140.2	72.90	-9.737

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.404	F -269.9	238.2	237.9	3.511	1.174
Stddev	1.340	16.3	3.4	4.3	.686	.262
%RSD	30.42	6.030	1.428	1.813	19.54	22.30

#1	5.943	-283.1	238.8	241.5	3.774	1.039
#2	3.500	-275.0	241.3	239.0	2.732	1.476
#3	3.769	-251.7	234.6	233.1	4.027	1.007

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-4-B@4 Acquired: 5/31/2018 23:32:34 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.955	16.48	581.6	1497.
Stddev	.926	.13	6.9	14.
%RSD	10.34	.8018	1.187	.9468

#1	9.782	16.54	585.5	1485.
#2	9.131	16.33	585.7	1513.
#3	7.954	16.57	573.6	1494.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2418.6	60687.	9470.5
Stddev	14.2	235.	31.1
%RSD	.58882	.38707	.32884

#1	2410.6	60574.	9449.3
#2	2435.1	60529.	9506.2
#3	2410.2	60957.	9455.9

Sample Name: CCB Acquired: 6/1/2018 3:27:44 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8543	-.2026	-.0515	-.0904	.0794	-3.036
Stddev	6.750	3.545	.0778	.0714	.0287	.725
%RSD	790.2	1750.	151.1	79.01	36.14	23.87

#1	5.780	-2.824	-.0278	-.0695	.1087	-3.120
#2	-7.715	-1.615	.0117	-.0317	.0781	-2.273
#3	-.6270	3.831	-.1383	-.1699	.0514	-3.715

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0354	.1220	-.0003	-.6794	-3.846	43.49
Stddev	.1325	.1390	.2139	.1228	4.194	35.27
%RSD	373.7	113.9	77740.	18.07	109.1	81.11

#1	-.1273	.1115	.0084	-.8208	-2.966	83.64
#2	-.0955	-.0115	-.2183	-.6178	-8.410	17.47
#3	.1164	.2658	.2091	-.5996	-.1609	29.36

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 3:27:44 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.421	-.1430	36.39	-.9048	-.0467	1.623
Stddev	3.766	.0482	24.05	.1202	1.008	.742
%RSD	110.1	33.74	66.07	13.28	2157.	45.72

#1	7.692	-.0967	46.59	-.9595	.0754	1.381
#2	.5774	-.1392	53.66	-.7670	-1.110	1.033
#3	1.993	-.1930	8.928	-.9878	.8945	2.456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.869	12.95	.1995	-.4127	.5064	1.964
Stddev	2.188	.83	.5041	.1669	.3033	.241
%RSD	76.26	6.395	252.7	40.45	59.88	12.27

#1	2.841	13.56	.3916	-.3434	.8271	2.242
#2	5.070	13.28	.5792	-.6030	.4680	1.843
#3	.6949	12.01	-.3724	-.2915	.2242	1.808

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 3:27:44 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5561	.1305	1.181	-20.73
Stddev	.4900	.0717	.187	9.19
%RSD	88.10	54.96	15.85	44.34

#1	1.095	.1854	1.396	-19.73
#2	.4351	.1567	1.095	-30.38
#3	.1381	.0494	1.052	-12.08

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2413.9	61140.	9036.5
Stddev	3.1	117.	45.4
%RSD	.12979	.19143	.50207

#1	2417.5	61273.	9022.6
#2	2412.9	61053.	8999.6
#3	2411.5	61095.	9087.1

Sample Name: CCB Acquired: 5/31/2018 23:40:20 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-14.78	-.9804	.1806	.0411	.0339	-3.518
Stddev	9.62	1.046	.2868	.0687	.0413	.700
%RSD	65.09	106.7	158.8	167.0	121.9	19.90

#1	-10.23	-1.141	-.1222	.1047	.0105	-4.299
#2	-8.277	.1365	.4482	.0504	.0816	-2.948
#3	-25.82	-1.936	.2157	-.0317	.0096	-3.308

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1341	-.0567	.0193	-.0426	-1.007	25.81
Stddev	.0429	.2130	.2980	.1617	9.903	15.40
%RSD	32.00	375.9	1548.	379.2	983.5	59.69

#1	-.0898	.0849	.0958	.1440	-11.31	43.20
#2	-.1755	.0467	-.3096	-.1358	-1.1603	20.34
#3	-.1372	-.3016	.2715	-.1362	8.445	13.88

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 23:40:20 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9899	-.1245	21.17	-1.280	.3149	1.045
Stddev	2.962	.0872	19.19	.076	.8474	2.261
%RSD	299.2	70.10	90.64	5.911	269.1	216.4

#1	3.797	-.0325	39.40	-1.197	-.5682	-1.502
#2	1.277	-.1347	1.140	-1.345	1.122	2.818
#3	-2.105	-.2061	22.99	-1.299	.3912	1.818

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3910	9.632	.3367	-.2995	2.356	1.598
Stddev	.8811	21.69	.4186	.2104	.849	.304
%RSD	225.4	225.2	124.3	70.23	36.02	19.04

#1	1.334	20.58	.4897	-.4350	2.677	1.800
#2	.2500	-15.35	-.1369	-.4064	2.998	1.746
#3	-.4111	23.67	.6573	-.0572	1.394	1.248

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 23:40:20 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.9331	.1890	1.331	-2.541
Stddev	.4300	.0800	.308	2.518
%RSD	46.09	42.34	23.17	99.11

#1	.4474	.2810	1.668	-.5624
#2	1.086	.1501	1.260	-1.685
#3	1.265	.1359	1.064	-5.375

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2374.8	60030.	9102.0
Stddev	7.6	283.	25.6
%RSD	.31845	.47134	.28143

#1	2382.7	60321.	9074.3
#2	2374.2	60013.	9124.9
#3	2367.6	59756.	9106.8

Sample Name: 460-157109-B-5-A@4 Acquired: 5/31/2018 23:48:21 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40630.	21.18	-.3670	219.4	2.822	178.8
Stddev	221.	1.86	.0794	3.7	.022	7.7
%RSD	.5436	8.792	21.65	1.699	.7711	4.314

#1	40390.	20.22	-.2870	220.9	2.804	170.7
#2	40690.	19.99	-.4458	222.2	2.846	179.7
#3	40820.	23.33	-.3681	215.2	2.816	186.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.240	20.84	95.50	102.9	123400.	2712.
Stddev	.312	.43	1.41	.9	1431.	7.
%RSD	9.622	2.056	1.472	.8375	1.160	.2582

#1	-2.890	20.95	94.44	102.7	123100.	2712.
#2	-3.344	21.21	97.09	103.9	124900.	2705.
#3	-3.487	20.37	94.96	102.2	122100.	2719.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-B-5-A@4 Acquired: 5/31/2018 23:48:21 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6933.	407.8	126.4	222.7	177.5	-3.726
Stddev	91.	4.2	10.5	4.6	3.2	.671
%RSD	1.313	1.021	8.318	2.074	1.807	18.02

#1	6910.	406.1	133.0	224.0	179.0	-4.283
#2	7034.	412.5	114.3	226.5	179.7	-3.913
#3	6856.	404.6	131.9	217.6	173.8	-2.981

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.929	F -206.5	177.8	332.5	7.356	2.476
Stddev	3.339	8.0	1.6	5.4	.320	.273
%RSD	48.19	3.865	.8721	1.628	4.349	11.03

#1	5.781	-206.8	178.0	333.6	7.538	2.739
#2	4.316	-214.3	179.3	337.3	7.542	2.194
#3	10.69	-198.4	176.2	326.6	6.986	2.496

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-B-5-A@4 Acquired: 5/31/2018 23:48:21 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	12.54	15.45	752.6	1593.
Stddev	1.60	.12	8.1	25.
%RSD	12.77	.7703	1.083	1.539

#1	13.52	15.31	752.4	1616.
#2	10.69	15.54	760.8	1596.
#3	13.40	15.49	744.5	1567.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2428.0	60907.	9462.2
Stddev	9.1	318.	90.4
%RSD	.37470	.52248	.95538

#1	2426.1	61063.	9535.9
#2	2419.9	60541.	9489.4
#3	2437.8	61116.	9361.3

Sample Name: Acquired: 5/31/2018 23:52:14 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k -5.980	k -1.940	s .1506	k .2073	k -.1155	s 3.008
Stddev	4.253	.542	.6987	.0320	.0128	1.640
%RSD	71.12	27.95	463.8	15.44	11.07	54.51

#1	k -10.73	k -2.004	s .9541	k .2334	k -.1014	s 2.647
#2	-2.530	-1.368	-.3142	.2170	-.1189	4.797
#3	-4.679	-2.446	-.1881	.1716	-.1263	1.578

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k .1564	k .4457	s -.1875	s -5.072	s -5.828	20.74
Stddev	.0033	.0884	.1031	1.537	1.320	15.13
%RSD	2.087	19.83	54.97	30.31	22.65	72.94

#1	k .1597	k .5034	s -.2668	s -6.844	s -4.734	37.30
#2	.1532	.4898	-.0710	-4.273	-5.455	17.26
#3	.1563	.3440	-.2248	-4.099	-7.294	7.653

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Acquired: 5/31/2018 23:52:14 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	s -1.1005	s -.2760	-.7930	k -.6843	k .4641	k -1.692
Stddev	.6226	.0254	4.702	.1467	.3665	.598
%RSD	619.5	9.208	592.9	21.43	78.97	35.34

#1	s -.1602	s -.3051	4.507	k -.7584	k .3846	k -1.772
#2	-.6911	-.2584	-2.423	-.7792	.8639	-2.246
#3	.5498	-.2645	-4.463	-.5154	.1439	-1.058

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k -2.882	kF -35.36	s -1.418	k -.3935	k -14.96	k .0491
Stddev	.535	2.14	.089	.0828	.49	.0809
%RSD	18.58	6.050	6.310	21.03	3.273	164.8

#1	k -3.466	k -36.81	s -1.431	k -.3896	k -15.29	k .0631
#2	-2.415	-32.90	-1.323	-.3128	-15.18	.1221
#3	-2.763	-36.37	-1.501	-.4782	-14.39	-.0379

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: Acquired: 5/31/2018 23:52:14 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-2.823	k .0276	s .1057	kF -323.8
Stddev	.619	.0259	.1047	13.2
%RSD	21.92	93.84	99.08	4.085

#1	-3.333	k .0475	s -.0010	k -329.8
#2	-3.001	.0371	.2083	-332.9
#3	-2.134	-.0017	.1097	-308.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20000.
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	5838.6	^ *****	15820.
Stddev	299.2	-----	386.
%RSD	5.1243	-----	2.4417

#1	6078.5	^ -----	15819.
#2	5933.8	135420.	15435.
#3	5503.4	125390.	16207.

Sample Name: 460-157109-A-6-A@4 Acquired: 5/31/2018 23:56:15 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21940.	3.178	-.4947	91.09	3.143	2661.
Stddev	105.	2.430	.1738	.18	.075	11.
%RSD	.4769	76.45	35.14	.1987	2.396	.4097

#1	21840.	5.168	-.4851	91.01	3.064	2667.
#2	22050.	3.896	-.3259	91.29	3.214	2668.
#3	21920.	.4706	-.6731	90.95	3.151	2649.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.318	79.86	53.36	76.10	97760.	2203.
Stddev	.133	.65	.45	.40	279.	24.
%RSD	5.716	.8129	.8510	.5312	.2856	1.108

#1	-2.451	80.35	53.86	75.74	97530.	2175.
#2	-2.186	80.11	52.97	76.02	98070.	2220.
#3	-2.317	79.12	53.24	76.53	97690.	2214.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-6-A@4 Acquired: 5/31/2018 23:56:15 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2987.	887.7	298.5	586.4	33.34	-3.825
Stddev	4.	3.2	5.5	1.1	1.43	1.005
%RSD	.1231	.3574	1.831	.1849	4.297	26.26

#1	2990.	884.5	296.7	586.3	32.48	-4.887
#2	2989.	890.9	304.6	587.5	32.56	-3.699
#3	2983.	887.7	294.1	585.3	35.00	-2.890

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.263	F -163.3	84.11	259.9	3.161	1.619
Stddev	3.899	16.4	.91	.8	.517	.032
%RSD	308.8	10.05	1.085	.2905	16.35	1.981

#1	.1707	-173.6	84.68	259.5	3.717	1.586
#2	-1.974	-172.0	83.06	260.8	2.695	1.620
#3	5.591	-144.4	84.59	259.4	3.070	1.650

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-6-A@4 Acquired: 5/31/2018 23:56:15 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.632	25.63	755.2	1034.
Stddev	.115	.25	2.2	5.
%RSD	1.726	.9697	.2951	.4484

#1	6.520	25.34	753.0	1038.
#2	6.629	25.75	757.5	1029.
#3	6.749	25.80	755.2	1035.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2483.5	62828.	9659.6
Stddev	5.7	388.	26.3
%RSD	.23137	.61690	.27246

#1	2481.2	62504.	9658.3
#2	2490.0	62723.	9633.9
#3	2479.2	63257.	9686.5

Sample Name: 460-157109-A-7-A@4 Acquired: 6/1/2018 0:00:07 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34890.	135.9	-.5644	190.5	4.544	3226.
Stddev	1009.	1.9	.4339	3.1	.162	21.
%RSD	2.892	1.426	76.88	1.606	3.554	.6447

#1	34020.	134.3	-.5994	192.4	4.357	3202.
#2	36000.	138.0	-.9797	192.2	4.634	3242.
#3	34670.	135.3	-.1140	187.0	4.640	3233.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.115	26.80	86.66	136.8	146400.	3282.
Stddev	.435	.58	.87	.9	895.	91.
%RSD	13.98	2.163	.9996	.6544	.6114	2.759

#1	-2.895	27.07	85.95	137.5	145900.	3196.
#2	-2.832	27.20	87.62	137.2	147400.	3377.
#3	-3.616	26.14	86.41	135.8	145800.	3273.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-7-A@4 Acquired: 6/1/2018 0:00:07 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6518.	955.4	664.5	132.6	170.5	-6.528
Stddev	27.	4.0	30.0	2.2	1.6	1.051
%RSD	.4155	.4148	4.512	1.668	.9314	16.10

#1	6497.	952.3	635.4	133.4	170.8	-5.342
#2	6549.	959.9	695.3	134.4	172.0	-7.344
#3	6509.	954.1	662.7	130.1	168.8	-6.898

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.609	F -236.8	103.8	558.8	6.965	2.880
Stddev	2.156	15.6	.9	7.3	.674	.190
%RSD	82.65	6.598	.8889	1.302	9.683	6.613

#1	4.409	-251.5	104.1	561.4	6.439	2.739
#2	3.199	-238.4	104.6	564.4	7.725	2.805
#3	.2193	-220.4	102.8	550.6	6.731	3.097

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-7-A@4 Acquired: 6/1/2018 0:00:07 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	25.21	35.98	729.4	1290.
Stddev	.92	.69	5.2	11.
%RSD	3.663	1.930	.7165	.8842

#1	26.24	35.36	729.6	1279.
#2	24.96	36.73	734.5	1301.
#3	24.45	35.85	724.1	1291.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2476.0	62831.	9754.8
Stddev	5.2	199.	111.0
%RSD	.20964	.31697	1.1379

#1	2471.0	62952.	9870.2
#2	2475.6	62939.	9648.8
#3	2481.4	62601.	9745.3

Sample Name: 460-157109-A-8-A@4 Acquired: 6/1/2018 0:03:58 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39210.	10.14	-.6359	208.4	3.771	1532.
Stddev	226.	2.34	.2693	1.3	.051	10.
%RSD	.5766	23.13	42.35	.6049	1.339	.6747

#1	39420.	12.67	-.5908	209.6	3.828	1530.
#2	39240.	9.686	-.3920	208.5	3.752	1523.
#3	38970.	8.048	-.9249	207.1	3.732	1544.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.871	18.87	91.05	61.42	95000.	3212.
Stddev	.162	.29	.45	.55	955.	32.
%RSD	8.638	1.536	.4949	.8906	1.005	.9897

#1	-2.027	19.08	91.53	62.02	96060.	3177.
#2	-1.704	18.98	90.99	60.95	94740.	3240.
#3	-1.883	18.54	90.63	61.30	94210.	3219.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-8-A@4 Acquired: 6/1/2018 0:03:58 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7166.	301.2	137.5	64.15	98.09	-4.008
Stddev	36.	1.4	17.8	.68	1.47	.854
%RSD	.4995	.4661	12.91	1.052	1.504	21.31

#1	7202.	302.8	148.1	64.56	99.53	-4.418
#2	7166.	300.9	147.3	64.53	98.16	-3.026
#3	7131.	300.0	117.0	63.37	96.58	-4.578

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.554	F -147.8	110.3	494.8	5.067	.7628
Stddev	3.115	6.8	.6	2.6	.516	.1778
%RSD	87.64	4.572	.5449	.5188	10.18	23.31

#1	3.637	-141.8	110.9	497.5	5.514	.7746
#2	6.626	-155.1	110.1	494.6	5.184	.5794
#3	.3984	-146.3	109.8	492.3	4.503	.9344

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-8-A@4 Acquired: 6/1/2018 0:03:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.878	29.48	751.9	1259.
Stddev	.457	.12	1.8	8.
%RSD	6.646	.4008	.2355	.6052

#1	6.915	29.46	753.8	1262.
#2	6.403	29.60	751.6	1250.
#3	7.315	29.37	750.3	1264.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2547.6	64599.	9852.3
Stddev	9.9	174.	40.8
%RSD	.38890	.26967	.41378

#1	2547.8	64427.	9872.0
#2	2557.4	64776.	9805.4
#3	2537.5	64593.	9879.4

Sample Name: 460-157109-A-9-A@4 Acquired: 6/1/2018 0:07:51 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33360.	12.73	-.0668	250.1	1.458	1582.
Stddev	107.	1.18	.1302	1.5	.012	9.
%RSD	.3207	9.252	194.8	.6028	.8414	.5472

#1	33250.	13.08	.0699	250.6	1.450	1591.
#2	33460.	11.42	-.1893	251.2	1.472	1582.
#3	33350.	13.69	-.0811	248.4	1.452	1574.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5870	18.25	48.46	36.53	40490.	1112.
Stddev	.0535	.41	.58	.05	364.	9.
%RSD	9.111	2.232	1.193	.1357	.8985	.7654

#1	-.6383	18.31	47.95	36.49	40490.	1108.
#2	-.5316	18.63	49.09	36.52	40850.	1122.
#3	-.5910	17.82	48.35	36.59	40120.	1107.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-9-A@4 Acquired: 6/1/2018 0:07:51 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2780.	476.2	1916.	84.27	63.74	-.3661
Stddev	14.	1.0	7.	1.17	.33	.6086
%RSD	.5092	.2021	.3458	1.388	.5216	166.2

#1	2779.	476.6	1910.	85.38	63.60	-.4079
#2	2795.	476.9	1915.	84.38	64.12	.2623
#3	2767.	475.1	1923.	83.05	63.50	-.9527

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4736	F -43.88	94.60	109.5	2.430	.6894
Stddev	2.344	12.51	.90	.9	.287	.1560
%RSD	494.8	28.52	.9525	.8357	11.81	22.63

#1	2.805	-38.77	95.27	110.2	2.756	.6167
#2	-1.882	-34.74	94.95	109.7	2.320	.5829
#3	.4977	-58.14	93.58	108.5	2.214	.8684

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-9-A@4 Acquired: 6/1/2018 0:07:51 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.370	17.51	161.9	866.1
Stddev	1.279	.06	.2	12.8
%RSD	23.81	.3554	.1118	1.479

#1	6.514	17.44	162.0	868.6
#2	3.990	17.53	162.1	877.5
#3	5.606	17.56	161.7	852.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2449.6	62745.	9517.4
Stddev	4.5	315.	90.9
%RSD	.18233	.50248	.95550

#1	2444.6	62388.	9419.9
#2	2453.1	62865.	9599.9
#3	2451.3	62983.	9532.4

Sample Name: 460-157109-A-10-A@4 Acquired: 6/1/2018 0:11:45 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38480.	137.0	-.1100	246.9	3.149	6678.
Stddev	95.	2.3	.1370	2.8	.079	28.
%RSD	.2457	1.674	124.6	1.132	2.500	.4187

#1	38420.	137.5	-.1353	247.3	3.070	6651.
#2	38440.	139.0	-.2326	249.4	3.227	6707.
#3	38590.	134.5	.0379	243.9	3.150	6678.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.526	34.42	90.20	205.9	98850.	2228.
Stddev	.078	.53	.21	.7	355.	20.
%RSD	5.087	1.539	.2366	.3425	.3592	.8784

#1	-1.471	34.44	90.42	205.6	98870.	2207.
#2	-1.492	34.93	89.99	205.3	99190.	2230.
#3	-1.615	33.88	90.19	206.7	98480.	2246.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-10-A@4 Acquired: 6/1/2018 0:11:45 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11300.	827.5	336.5	274.5	105.3	-3.819
Stddev	23.	1.6	10.6	4.0	1.7	1.205
%RSD	.2005	.1922	3.143	1.468	1.601	31.54

#1	11280.	826.7	347.0	275.7	105.8	-5.035
#2	11320.	829.3	336.7	277.7	106.6	-2.626
#3	11300.	826.4	325.8	270.0	103.4	-3.796

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.561	F -165.6	145.8	361.7	7.345	3.049
Stddev	.195	5.1	.5	3.4	.478	.087
%RSD	7.631	3.103	.3200	.9435	6.511	2.841

#1	2.759	-164.0	145.3	363.2	6.793	3.029
#2	2.368	-161.4	145.9	364.0	7.606	2.973
#3	2.557	-171.3	146.2	357.7	7.636	3.143

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-10-A@4 Acquired: 6/1/2018 0:11:45 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.819	155.9	1165.	1326.
Stddev	.683	.5	2.	17.
%RSD	7.747	.3264	.1934	1.261

#1	8.496	155.3	1164.	1339.
#2	8.356	156.0	1167.	1307.
#3	9.604	156.4	1163.	1333.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2461.1	62555.	9634.8
Stddev	8.7	135.	95.2
%RSD	.35301	.21530	.98812

#1	2469.3	62556.	9732.1
#2	2462.2	62689.	9541.9
#3	2452.0	62420.	9630.4

Sample Name: 460-157109-A-12-A@4 Acquired: 6/1/2018 0:19:25 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25420.	32.44	-.2148	244.1	3.430	4449.
Stddev	53.	1.13	.1380	2.6	.092	14.
%RSD	.2084	3.495	64.23	1.060	2.672	.3115

#1	25380.	31.15	-.1593	245.3	3.470	4449.
#2	25480.	33.25	-.3718	245.8	3.494	4464.
#3	25410.	32.93	-.1132	241.1	3.325	4436.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.136	25.03	73.59	82.50	104500.	2835.
Stddev	.169	.17	.17	.29	578.	23.
%RSD	7.896	.6895	.2369	.3514	.5525	.8232

#1	-2.016	25.17	73.62	82.50	104700.	2835.
#2	-2.063	25.07	73.74	82.78	105000.	2811.
#3	-2.329	24.84	73.40	82.21	103900.	2858.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157109-A-12-A@4 Acquired: 6/1/2018 0:19:25 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6177.	348.1	183.3	625.8	173.7	-4.389
Stddev	28.	1.0	5.2	9.6	2.2	.784
%RSD	.4490	.2938	2.823	1.528	1.288	17.85

#1	6169.	348.0	189.3	632.0	174.7	-5.194
#2	6208.	349.1	180.0	630.7	175.2	-4.344
#3	6155.	347.1	180.6	614.8	171.1	-3.628

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6774	F -171.3	101.8	445.6	3.545	.7169
Stddev	1.596	6.5	.7	5.6	.286	.1713
%RSD	235.6	3.807	.7008	1.251	8.076	23.89

#1	-1.163	-178.8	101.4	448.2	3.859	.5391
#2	1.517	-167.2	102.7	449.4	3.477	.8809
#3	1.678	-167.9	101.5	439.2	3.299	.7307

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-157109-A-12-A@4 Acquired: 6/1/2018 0:19:25 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.492	71.50	502.1	1168.
Stddev	.621	.22	1.5	19.
%RSD	7.313	.3096	.3082	1.608

#1	8.392	71.28	501.6	1152.
#2	9.156	71.73	503.8	1164.
#3	7.926	71.49	500.8	1189.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2584.3	65329.	9995.3
Stddev	2.4	104.	15.8
%RSD	.09206	.15905	.15759

#1	2584.6	65262.	9982.7
#2	2586.5	65276.	10013.
#3	2581.7	65449.	9990.1

Sample Name: CCV Acquired: 6/1/2018 0:27:08 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125200.	2485.	1214.	9908.	983.4	123400.
Stddev	670.	45.	4.	161.	7.1	968.
%RSD	.5349	1.803	.3213	1.627	.7204	.7843

#1	125200.	2517.	1217.	10030.	985.9	123900.
#2	125800.	2505.	1216.	9969.	989.0	124100.
#3	124500.	2434.	1210.	9725.	975.5	122300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1241.	2396.	4936.	12380.	100500.	49280.
Stddev	21.	41.	34.	77.	557.	138.
%RSD	1.668	1.727	.6894	.6257	.5547	.2804

#1	1256.	2433.	4950.	12440.	100700.	49200.
#2	1249.	2405.	4961.	12410.	100800.	49440.
#3	1217.	2351.	4897.	12290.	99820.	49200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 0:27:08 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123500.	5146.	122700.	2375.	7305.	978.0
Stddev	716.	35.	420.	45.	119.	17.9
%RSD	.5793	.6865	.3421	1.890	1.630	1.827

#1	123900.	5155.	122600.	2414.	7405.	993.2
#2	124000.	5176.	123200.	2384.	7336.	982.5
#3	122700.	5107.	122400.	2326.	7173.	958.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2504.	F 1876.	2413.	2557.	977.8	2498.
Stddev	39.	137.	9.	40.	13.7	48.
%RSD	1.576	7.280	.3638	1.565	1.398	1.918

#1	2524.	1906.	2419.	2588.	991.1	2533.
#2	2529.	1995.	2416.	2571.	978.7	2518.
#3	2459.	1727.	2403.	2512.	963.8	2444.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		2500.				
Range		-10.50%				

Sample Name: CCV Acquired: 6/1/2018 0:27:08 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1009.	4898.	10050.	9258.
Stddev	18.	67.	112.	55.
%RSD	1.758	1.360	1.113	.5938

#1	1017.	4880.	10050.	9321.
#2	1021.	4972.	10160.	9225.
#3	988.4	4842.	9938.	9227.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2204.4	55731.	8924.1
Stddev	5.2	183.	55.4
%RSD	.23561	.32905	.62110

#1	2198.6	55940.	8985.0
#2	2208.5	55595.	8910.5
#3	2206.0	55658.	8876.7

Sample Name: CCB Acquired: 6/1/2018 0:31:05 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-11.01	-5.936	-1.019	.1117	.0631	-1.083
Stddev	4.82	2.620	.0351	.1685	.0301	1.101
%RSD	43.75	441.4	34.45	151.0	47.72	101.7
#1	-10.60	1.159	-.0885	.2754	.0882	-.1822
#2	-6.414	.6656	-.1417	.1210	.0297	-.7569
#3	-16.02	-3.606	-.0755	-.0613	.0714	-2.311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0209	-.1078	.0666	-.1825	3.983	22.45
Stddev	.0425	.3740	.2090	.1906	3.270	20.74
%RSD	203.7	346.9	313.7	104.5	82.09	92.37
#1	.0158	-.1439	-.0928	-.0502	7.056	46.21
#2	-.0110	-.4625	.3032	-.0962	4.347	7.997
#3	-.0674	.2829	-.0106	-.4010	.5463	13.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 0:31:05 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.988	-.0839	-3.958	-1.050	-.2285	2.208
Stddev	4.747	.1079	18.95	.278	.6423	.704
%RSD	119.0	128.6	478.9	26.42	281.1	31.88
#1	8.107	.0274	17.22	-1.199	.3064	3.011
#2	5.060	-.0909	-9.744	-1.223	-.0509	1.916
#3	-1.203	-.1881	-19.35	-.7303	-.9409	1.698

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.731	1.600	.2800	-.2394	1.299	1.522
Stddev	2.194	11.12	.1857	.2202	.722	.155
%RSD	58.81	695.1	66.30	91.96	55.54	10.21
#1	6.253	7.146	.4844	-.4006	2.116	1.673
#2	2.251	-11.20	.2339	.0115	1.037	1.530
#3	2.691	8.854	.1218	-.3291	.7454	1.363

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 0:31:05 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6704	.1851	1.297	-4.893
Stddev	.8855	.1352	.214	4.745
%RSD	132.1	73.06	16.52	96.97

#1	.2683	.2627	1.542	-8.578
#2	.0573	.2636	1.202	.4606
#3	1.686	.0289	1.146	-6.561

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2395.4	61043.	9147.2
Stddev	2.3	70.	27.0
%RSD	.09403	.11429	.29548

#1	2395.2	60986.	9178.2
#2	2393.2	61023.	9135.1
#3	2397.7	61121.	9128.3

Sample Name: 460-156912-A-1-B@4 Acquired: 6/1/2018 0:43:02 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43580.	5.627	-.3321	302.0	1.461	4259.
Stddev	338.	1.686	.1870	7.1	.017	47.
%RSD	.7763	29.96	56.31	2.361	1.179	1.111

#1	43600.	4.135	-.5477	305.8	1.471	4280.
#2	43900.	7.457	-.2157	306.4	1.441	4292.
#3	43220.	5.290	-.2328	293.8	1.472	4205.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.352	13.38	57.55	41.50	59540.	1643.
Stddev	.049	.19	.39	.44	713.	7.
%RSD	3.643	1.385	.6810	1.069	1.197	.4146

#1	-1.317	13.43	57.89	41.72	59850.	1650.
#2	-1.330	13.53	57.63	41.80	60050.	1637.
#3	-1.408	13.17	57.12	40.99	58720.	1642.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156912-A-1-B@4 Acquired: 6/1/2018 0:43:02 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8813.	328.6	359.8	37.37	47.59	-1.742
Stddev	92.	3.6	6.4	.83	1.75	1.091
%RSD	1.042	1.111	1.766	2.229	3.685	62.63

#1	8850.	329.9	360.9	37.86	47.44	-1.127
#2	8881.	331.5	365.6	37.84	49.41	-3.001
#3	8709.	324.5	353.0	36.40	45.91	-1.097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.898	F -82.60	97.72	124.6	3.806	.6375
Stddev	1.323	15.48	1.39	3.1	.404	.1484
%RSD	45.67	18.74	1.418	2.520	10.62	23.28

#1	4.303	-69.97	97.08	126.6	3.635	.7161
#2	1.676	-99.87	99.32	126.3	4.268	.7300
#3	2.714	-77.97	96.78	121.0	3.516	.4663

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-156912-A-1-B@4 Acquired: 6/1/2018 0:43:02 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.831	32.58	610.0	1146.
Stddev	1.103	.22	6.6	11.
%RSD	18.92	.6821	1.079	.9769

#1	6.781	32.59	613.3	1133.
#2	6.091	32.79	614.3	1153.
#3	4.621	32.35	602.5	1151.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2438.0	61794.	9527.8
Stddev	5.8	214.	11.7
%RSD	.23985	.34661	.12254

#1	2435.0	61612.	9521.4
#2	2434.2	61740.	9520.6
#3	2444.7	62030.	9541.2

Sample Name: 460-156912-A-2-B@4 Acquired: 6/1/2018 0:46:57 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	64110.	12.22	-.0873	934.5	3.565	8179.
Stddev	75.	3.13	.0305	5.5	.034	26.
%RSD	.1165	25.66	34.89	.5862	.9407	.3214

#1	64130.	12.34	-.0740	939.1	3.547	8177.
#2	64170.	15.29	-.1221	936.0	3.603	8206.
#3	64020.	9.022	-.0657	928.4	3.544	8154.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.016	47.98	92.49	157.4	129000.	5963.
Stddev	.133	.33	.25	.2	549.	16.
%RSD	6.598	.6779	.2678	.1459	.4254	.2722

#1	-1.874	48.21	92.51	157.3	129000.	5945.
#2	-2.036	48.11	92.73	157.7	129500.	5974.
#3	-2.137	47.60	92.23	157.2	128500.	5971.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156912-A-2-B@4 Acquired: 6/1/2018 0:46:57 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21240.	2198.	614.0	101.9	4197.	-4.617
Stddev	79.	9.	23.1	.6	7.	.805
%RSD	.3718	.3938	3.764	.5619	.1640	17.43

#1	21210.	2198.	619.9	102.2	4204.	-4.013
#2	21330.	2207.	588.5	102.3	4196.	-5.531
#3	21180.	2189.	633.6	101.3	4190.	-4.306

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6983	F -185.0	123.6	782.8	18.73	2.562
Stddev	3.125	11.1	.6	1.4	.37	.409
%RSD	447.6	6.006	.4992	.1807	1.978	15.95

#1	-2.727	-181.8	123.4	783.4	18.52	2.362
#2	3.395	-175.9	124.3	783.8	18.52	2.292
#3	1.427	-197.4	123.2	781.2	19.16	3.032

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-156912-A-2-B@4 Acquired: 6/1/2018 0:46:57 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.87	77.41	1084.	1055.
Stddev	1.08	.64	4.	13.
%RSD	9.082	.8330	.4107	1.241

#1	12.92	78.06	1084.	1053.
#2	11.93	77.39	1088.	1043.
#3	10.77	76.77	1079.	1069.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2457.6	61877.	9562.7
Stddev	6.1	143.	42.5
%RSD	.25023	.23149	.44446

#1	2456.9	61902.	9608.6
#2	2464.0	61723.	9555.0
#3	2451.8	62006.	9524.7

Sample Name: 460-156912-A-4-B@4 Acquired: 6/1/2018 0:54:38 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58280.	4.488	-.4451	250.2	1.955	2348.
Stddev	379.	2.419	.3099	4.1	.065	4.
%RSD	.6501	53.91	69.63	1.631	3.318	.1563

#1	58140.	5.091	-.4806	252.4	1.925	2345.
#2	58710.	1.824	-.7357	252.6	1.911	2348.
#3	58000.	6.549	-.1189	245.4	2.030	2352.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.186	25.76	73.71	52.51	95010.	4026.
Stddev	.162	.73	.23	.32	426.	4.
%RSD	7.403	2.846	.3095	.5998	.4483	.1012

#1	-2.125	26.17	73.84	52.36	95120.	4025.
#2	-2.064	26.20	73.83	52.88	95360.	4023.
#3	-2.370	24.92	73.44	52.30	94540.	4031.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156912-A-4-B@4 Acquired: 6/1/2018 0:54:38 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13860.	971.8	3426.	58.62	51.76	-4.145
Stddev	27.	3.8	3.	1.23	1.20	.537
%RSD	.1912	.3883	.1005	2.107	2.320	12.96

#1	13850.	973.3	3429.	59.08	51.41	-4.750
#2	13890.	974.7	3422.	59.56	53.10	-3.725
#3	13840.	967.6	3427.	57.22	50.78	-3.958

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.417	F -156.5	112.8	184.5	11.88	.8680
Stddev	1.352	15.2	.5	2.8	.36	.2184
%RSD	55.91	9.719	.4446	1.495	3.062	25.16

#1	.8570	-163.2	112.3	185.4	11.61	.7125
#2	3.229	-167.3	113.2	186.7	12.30	.7738
#3	3.166	-139.1	113.0	181.4	11.75	1.118

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-156912-A-4-B@4 Acquired: 6/1/2018 0:54:38 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.446	32.57	1322.	1024.
Stddev	.773	.12	8.	32.
%RSD	12.00	.3590	.5924	3.125

#1	5.559	32.66	1326.	997.3
#2	6.799	32.60	1327.	1060.
#3	6.981	32.44	1313.	1016.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2424.8	61041.	9377.3
Stddev	17.5	59.	110.3
%RSD	.72299	.09691	1.1761

#1	2427.7	61040.	9297.5
#2	2406.0	61100.	9503.2
#3	2440.7	60982.	9331.3

Sample Name: 460-156912-D-5-B@4 Acquired: 6/1/2018 0:58:31 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34650.	30.06	1.975	667.3	2.210	11670.
Stddev	25.	1.83	.126	8.3	.118	21.
%RSD	.0722	6.073	6.385	1.244	5.360	.1820

#1	34660.	28.02	2.108	672.3	2.192	11680.
#2	34670.	30.61	1.957	671.9	2.102	11680.
#3	34620.	31.55	1.858	657.7	2.337	11640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.071	24.31	59.01	572.2	53910.	2897.
Stddev	.190	.24	.58	2.8	191.	28.
%RSD	9.166	.9675	.9896	.4862	.3549	.9743

#1	2.290	24.39	59.33	572.4	53950.	2914.
#2	1.962	24.49	59.35	574.9	54080.	2913.
#3	1.961	24.04	58.33	569.4	53700.	2865.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156912-D-5-B@4 Acquired: 6/1/2018 0:58:31 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8554.	2609.	341.7	56.02	3925.	1.801
Stddev	24.	6.	20.6	.56	49.	.355
%RSD	.2863	.2292	6.033	1.007	1.241	19.69

#1	8573.	2610.	364.2	55.87	3949.	1.949
#2	8563.	2614.	337.2	56.64	3957.	1.396
#3	8526.	2602.	323.7	55.55	3869.	2.057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.847	F -69.04	109.5	1053.	7.889	2.248
Stddev	2.747	16.83	1.5	12.	.447	.222
%RSD	56.67	24.37	1.406	1.185	5.662	9.851

#1	5.205	-50.56	110.1	1057.	8.134	2.294
#2	1.939	-83.49	110.6	1063.	8.160	2.443
#3	7.398	-73.09	107.7	1039.	7.374	2.007

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.				
Low Limit		-20.00				

Sample Name: 460-156912-D-5-B@4 Acquired: 6/1/2018 0:58:31 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	42.49	81.46	564.2	1536.
Stddev	1.20	.32	2.1	13.
%RSD	2.813	.3871	.3665	.8206

#1	43.67	81.20	563.8	1550.
#2	41.28	81.81	566.5	1529.
#3	42.54	81.36	562.4	1528.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2466.5	62853.	9574.0
Stddev	9.1	110.	37.0
%RSD	.37023	.17535	.38690

#1	2464.5	62770.	9532.5
#2	2458.5	62978.	9585.5
#3	2476.5	62811.	9603.8

Sample Name: MB 460-523830/1-B Acquired: 6/1/2018 1:06:15 Type: QC

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.701	-.2804	-.1333	-.1174	.0692	5.294
Stddev	6.257	.5935	.0419	.0630	.0546	2.171
%RSD	109.8	211.7	31.42	53.68	78.91	41.00

#1	1.497	-.1192	-.0854	-.0504	.0173	7.561
#2	-8.760	-.9378	-.1513	-.1756	.1261	5.087
#3	-9.840	.2160	-.1631	-.1263	.0640	3.235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0179	.0663	-.0768	-.0629	12.44	3.616
Stddev	.0836	.1905	.1021	.0920	13.32	22.25
%RSD	467.6	287.3	132.9	146.4	107.1	615.3

#1	.0774	-.1536	-.1020	-.1578	17.05	-20.83
#2	-.0791	.1707	-.1639	.0260	-2.577	8.987
#3	-.0519	.1817	.0355	-.0568	22.85	22.69

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-523830/1-B Acquired: 6/1/2018 1:06:15 Type: QC

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3600	-.1879	11.57	-1.071	.7702	2.231
Stddev	1.880	.0423	4.63	.245	.9285	.928
%RSD	522.3	22.50	39.97	22.83	120.6	41.61

#1	2.519	-.1414	9.157	-.7931	.4948	1.160
#2	-.9159	-.1983	8.651	-1.166	.0105	2.743
#3	-.5235	-.2240	16.90	-1.253	1.805	2.791

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.596	8.619	.3756	.2011	-10.22	.0950
Stddev	.944	14.82	.4281	.0326	.18	.1510
%RSD	59.14	171.9	114.0	16.22	1.787	158.9

#1	1.323	21.15	.4435	.2383	-10.29	.1893
#2	2.646	-7.736	.7657	.1872	-10.36	-.0791
#3	.8188	12.44	-.0824	.1777	-10.01	.1749

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-523830/1-B Acquired: 6/1/2018 1:06:15 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2825	.0259	.1125	-238.1
Stddev	.7719	.0481	.0442	5.3
%RSD	273.3	185.9	39.28	2.231

#1	-.6077	.0784	.1264	-233.5
#2	.7676	.0152	.0630	-236.8
#3	.6875	-.0160	.1480	-243.9

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2404.3	61393.	9247.0
Stddev	6.8	134.	34.8
%RSD	.28274	.21862	.37655

#1	2412.0	61548.	9252.9
#2	2401.9	61313.	9278.5
#3	2399.0	61317.	9209.6

Sample Name: 460-157018-A-1-B DU Acquired: 6/1/2018 1:14:00 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	226.6	1.220	.0743	67.94	.0531	63710.
Stddev	2.3	2.282	.1637	.59	.0742	304.
%RSD	1.005	187.0	220.2	.8687	139.7	.4766

#1	224.5	-.4772	.2033	68.32	-.0253	63390.
#2	229.0	3.814	.1295	68.24	.0624	64000.
#3	226.2	.3240	-.1098	67.26	.1223	63750.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0440	.0906	.6483	1.002	1.134	13060.
Stddev	.0617	.0705	.3008	.085	7.215	77.
%RSD	140.1	77.83	46.40	8.525	636.1	.5868

#1	-.0589	.1674	.5885	1.035	-6.329	13140.
#2	-.0970	.0753	.3819	.9047	8.072	13060.
#3	.0238	.0289	.9746	1.066	1.659	12990.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157018-A-1-B DU Acquired: 6/1/2018 1:14:00 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16070.	.1629	40150.	3.021	-4.698	2.350
Stddev	83.	.0253	254.	.415	.781	.616
%RSD	.5149	15.50	.6317	13.73	16.63	26.22

#1	15970.	.1798	40100.	3.173	-5.533	1.661
#2	16130.	.1339	40420.	2.552	-4.579	2.847
#3	16100.	.1751	39930.	3.338	-3.984	2.541

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.734	-2.186	.1933	3.484	13.75	31.32
Stddev	1.354	7.947	.5383	.179	.30	.61
%RSD	78.11	363.6	278.5	5.150	2.185	1.952

#1	-1.893	-.6802	-.4091	3.645	13.71	31.80
#2	-.3069	-10.78	.3615	3.516	14.07	31.53
#3	-3.001	4.901	.6274	3.290	13.48	30.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157018-A-1-B DU Acquired: 6/1/2018 1:14:00 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2409	315.7	1.922	9091.
Stddev	1.343	2.3	.023	65.
%RSD	557.6	.7438	1.175	.7169

#1	-9978	318.0	1.896	9164.
#2	.0518	315.7	1.938	9068.
#3	1.669	313.3	1.933	9040.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2363.9	57800.	9080.2
Stddev	12.0	644.	49.5
%RSD	.50678	1.1147	.54543

#1	2373.6	58510.	9130.9
#2	2367.5	57638.	9031.9
#3	2350.5	57252.	9077.9

Sample Name: CCB Acquired: 6/1/2018 1:21:54 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-9.550	-1.1818	.0433	-.0328	.0695	-3.397
Stddev	2.898	1.191	.1356	.1158	.0345	1.678
%RSD	30.35	654.8	313.2	353.6	49.60	49.40

#1	-9.865	1.117	.1278	.0484	.1057	-2.355
#2	-12.28	-1.221	-.1131	-.1654	.0370	-2.504
#3	-6.507	-.4418	.1153	.0187	.0659	-5.333

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0539	.0542	-.2954	-.3491	-4.131	18.15
Stddev	.0585	.1822	.2508	.0926	8.276	17.79
%RSD	108.4	336.1	84.90	26.53	200.4	98.02

#1	-.0999	-.0654	-.4937	-.3009	-1.006	12.10
#2	.0118	-.0359	-.0135	-.2906	2.128	38.17
#3	-.0737	.2640	-.3790	-.4560	-13.51	4.172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 1:21:54 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.7475	-0.1544	25.50	-1.135	.0931	2.105
Stddev	4.435	.0271	9.42	.248	.3473	.831
%RSD	593.3	17.55	36.93	21.87	373.0	39.49
#1	-5.338	-.1244	31.50	-1.030	.4607	1.185
#2	3.513	-.1618	14.65	-1.418	-.2296	2.801
#3	-.4177	-.1770	30.36	-.9565	.0482	2.330

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.825	1.498	-.6846	-.4216	1.648	1.735
Stddev	2.922	13.57	1.118	.1331	.273	.153
%RSD	160.1	905.9	163.3	31.57	16.59	8.823
#1	1.036	16.66	-.2644	-.3117	1.702	1.912
#2	5.061	-2.642	.1626	-.3834	1.351	1.647
#3	-.6224	-9.523	-1.952	-.5696	1.890	1.647

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 1:21:54 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8775	.0755	1.107	-12.02
Stddev	1.053	.0784	.088	3.44
%RSD	120.0	103.7	7.960	28.66

#1	2.091	.0686	1.209	-14.38
#2	.2118	.0009	1.056	-13.60
#3	.3295	.1571	1.056	-8.066

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2415.5	60912.	9098.2
Stddev	3.0	151.	51.1
%RSD	.12217	.24861	.56211

#1	2415.8	60874.	9040.1
#2	2418.4	60783.	9136.6
#3	2412.5	61078.	9117.8

Sample Name: CCVL Acquired: 6/1/2018 1:25:56 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	216.9	15.15	9.677	207.5	2.015	5061.
Stddev	11.9	1.13	.169	2.1	.038	25.
%RSD	5.490	7.443	1.749	1.009	1.902	.4858

#1	224.6	14.94	9.637	208.9	1.971	5081.
#2	222.9	14.13	9.863	208.6	2.034	5068.
#3	203.1	16.36	9.532	205.1	2.041	5034.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.112	49.91	10.42	24.61	169.0	4816.
Stddev	.015	.70	.47	.08	8.3	5.
%RSD	.3648	1.398	4.507	.3139	4.911	.0976

#1	4.109	49.92	10.23	24.53	167.9	4814.
#2	4.098	50.60	10.95	24.69	161.3	4821.
#3	4.128	49.20	10.07	24.62	177.8	4812.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 1:25:56 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5083.	15.97	4608.	39.07	10.74	22.48
Stddev	25.	.06	4.	.46	.58	1.23
%RSD	.4957	.3741	.0896	1.186	5.363	5.483

#1	5093.	16.04	4613.	39.30	10.31	23.89
#2	5102.	15.96	4604.	39.37	10.52	21.60
#3	5054.	15.92	4608.	38.53	11.40	21.96

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.78	14.41	48.32	32.16	53.08	21.08
Stddev	1.32	9.23	.22	.36	.72	.26
%RSD	7.049	64.04	.4485	1.132	1.362	1.232

#1	18.97	11.11	48.46	32.39	53.88	21.32
#2	17.37	24.84	48.07	32.34	52.88	21.11
#3	19.99	7.290	48.43	31.74	52.48	20.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 1:25:56 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.10	19.20	21.57	F 110.0
Stddev	.90	.11	.11	8.3
%RSD	1.695	.5568	.5055	7.563

#1	52.06	19.25	21.50	107.7
#2	53.53	19.28	21.70	119.2
#3	53.70	19.08	21.52	103.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2385.7	60502.	9183.5
Stddev	1.6	42.	58.2
%RSD	.06787	.06966	.63381

#1	2383.9	60455.	9153.9
#2	2386.3	60513.	9250.6
#3	2387.0	60537.	9146.1

Sample Name: sd 460-157018-J-1-E Acquired: 6/1/2018 1:33:52 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.16	1.202	.1012	12.53	.0606	11330.
Stddev	3.38	.868	.1619	.06	.0466	12.
%RSD	7.473	72.22	160.0	.5083	76.90	.1053

#1	46.09	.9433	.1128	12.52	.0322	11340.
#2	47.98	.4931	.2571	12.60	.0353	11330.
#3	41.42	2.171	-.0662	12.47	.1145	11310.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0656	.1628	.0261	.1173	3.092	2383.
Stddev	.0500	.1540	.1981	.1101	10.15	14.
%RSD	76.33	94.61	759.6	93.85	328.4	.6009

#1	-.0082	.1698	-.1823	.2303	3.255	2391.
#2	-.1002	.0054	.0484	.0103	13.16	2367.
#3	-.0883	.3132	.2121	.1113	-7.142	2391.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-157018-J-1-E Acquired: 6/1/2018 1:33:52 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2869.	-.1188	6953.	.1366	-.9184	1.317
Stddev	1.	.0080	25.	.2726	.3772	.841
%RSD	.0367	6.722	.3589	199.5	41.08	63.82

#1	2869.	-.1096	6961.	.4438	-.7046	2.286
#2	2868.	-.1241	6974.	-.0763	-1.354	.8928
#3	2870.	-.1228	6925.	.0423	-.6966	.7736

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3638	1.540	-.2919	5.099	2.648	5.732
Stddev	2.199	11.29	.1888	.071	.260	.073
%RSD	604.5	733.2	64.70	1.389	9.831	1.279

#1	-1.911	1.511	-.4006	5.119	2.367	5.806
#2	2.478	12.84	-.4012	5.020	2.697	5.660
#3	.5245	-9.734	-.0738	5.157	2.880	5.732

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-157018-J-1-E Acquired: 6/1/2018 1:33:52 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4077	57.27	.8009	1626.
Stddev	.8885	.25	.0787	21.
%RSD	217.9	.4446	9.822	1.292

#1	-.5514	57.23	.7213	1602.
#2	1.203	57.04	.8786	1635.
#3	.5718	57.54	.8029	1641.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2400.8	60279.	9147.8
Stddev	7.8	86.	126.7
%RSD	.32384	.14190	1.3848

#1	2407.7	60365.	9016.3
#2	2402.4	60277.	9269.1
#3	2392.4	60194.	9157.9

Sample Name: 460-157018-J-1-F MS Acquired: 6/1/2018 1:37:52 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2251.	1975.	48.98	2042.	48.23	82220.
Stddev	9.	13.	.43	14.	.43	699.
%RSD	.3995	.6415	.8841	.6878	.8898	.8503

#1	2245.	1975.	49.34	2030.	47.89	82910.
#2	2261.	1988.	48.50	2057.	48.71	81510.
#3	2246.	1963.	49.11	2038.	48.10	82230.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.20	482.1	200.5	244.0	994.7	32360.
Stddev	.43	2.7	2.5	1.7	10.8	251.
%RSD	.8570	.5538	1.223	.6951	1.080	.7765

#1	49.97	480.4	203.1	244.7	1002.	32300.
#2	50.69	485.2	198.2	242.1	1000.	32640.
#3	49.93	480.7	200.2	245.3	982.4	32150.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157018-J-1-F MS Acquired: 6/1/2018 1:37:52 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35730.	514.6	59600.	472.7	489.4	484.1
Stddev	254.	3.5	460.	3.1	3.7	4.3
%RSD	.7106	.6772	.7710	.6519	.7660	.8932

#1	35960.	517.1	59690.	471.3	487.5	479.4
#2	35460.	510.6	60000.	476.2	493.7	487.8
#3	35780.	516.2	59100.	470.5	487.0	485.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2051.	1997.	471.5	531.7	507.4	534.2
Stddev	17.	117.	5.5	2.6	2.4	3.8
%RSD	.8426	5.862	1.160	.4896	.4664	.7056

#1	2044.	2101.	476.6	530.4	505.3	532.0
#2	2071.	2020.	465.7	534.7	510.0	538.6
#3	2038.	1870.	472.1	530.0	506.9	532.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157018-J-1-F MS Acquired: 6/1/2018 1:37:52 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	518.6	805.9	506.9	9386.
Stddev	5.2	5.1	3.1	67.
%RSD	1.004	.6371	.6086	.7161

#1	519.0	801.5	508.7	9309.
#2	523.6	811.5	503.4	9430.
#3	513.2	804.8	508.7	9419.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2317.6	57592.	9111.8
Stddev	15.4	447.	85.7
%RSD	.66320	.77624	.94034

#1	2335.2	57748.	9127.1
#2	2306.8	57941.	9019.5
#3	2310.7	57088.	9188.8

Sample Name: pds 460-157018-J-1-E Acquired: 6/1/2018 1:41:32 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2223.	1989.	47.62	2053.	47.70	80330.
Stddev	57.	55.	1.58	57.	1.12	1175.
%RSD	2.550	2.786	3.314	2.796	2.337	1.463

#1	2163.	1926.	46.02	1990.	46.52	78970.
#2	2230.	2014.	47.66	2067.	47.83	80950.
#3	2276.	2028.	49.17	2102.	48.73	81060.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.53	484.5	197.0	239.2	978.2	31820.
Stddev	1.25	13.4	7.4	9.1	25.5	533.
%RSD	2.476	2.775	3.764	3.792	2.605	1.674

#1	49.12	469.6	189.0	229.4	952.6	31230.
#2	50.94	488.3	198.5	241.1	978.4	31960.
#3	51.52	495.7	203.6	247.2	1004.	32270.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-157018-J-1-E Acquired: 6/1/2018 1:41:32 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35000.	506.6	58670.	475.2	491.9	471.8
Stddev	840.	18.8	576.	13.8	13.9	11.7
%RSD	2.401	3.705	.9823	2.908	2.818	2.486

#1	34050.	486.3	58000.	459.6	476.3	458.3
#2	35300.	510.2	59000.	480.3	496.3	478.4
#3	35640.	523.3	59000.	485.8	502.9	478.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2061.	1978.	464.7	533.5	509.9	536.8
Stddev	51.	36.	17.5	15.1	14.6	12.2
%RSD	2.450	1.797	3.759	2.836	2.857	2.278

#1	2007.	2004.	445.6	516.4	494.2	522.9
#2	2070.	1938.	468.8	538.9	512.7	542.0
#3	2107.	1993.	479.8	545.1	523.0	545.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-157018-J-1-E Acquired: 6/1/2018 1:41:32 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	521.2	797.1	497.8	9255.
Stddev	14.4	12.9	18.6	82.
%RSD	2.755	1.624	3.728	.8830

#1	504.8	783.5	477.6	9266.
#2	527.0	798.5	501.5	9330.
#3	531.7	809.2	514.2	9168.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2307.9	57827.	9059.3
Stddev	18.0	752.	84.9
%RSD	.77880	1.2996	.93719

#1	2328.3	58693.	9154.2
#2	2294.2	57353.	8990.4
#3	2301.2	57434.	9033.4

Sample Name: 460-157038-J-1-B Acquired: 6/1/2018 1:49:07 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	455.8	1.275	.1653	26.82	-.0437	169100.
Stddev	6.9	.319	.1954	.42	.0541	1384.
%RSD	1.520	25.00	118.2	1.554	123.8	.8183

#1	454.0	1.306	.3618	26.96	-.1040	168200.
#2	449.9	1.577	-.0290	27.14	-.0281	170700.
#3	463.4	.9421	.1631	26.35	.0009	168400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.070	14.16	.8310	73.63	128.6	20890.
Stddev	.090	.50	.2933	.59	6.1	285.
%RSD	8.450	3.528	35.30	.8040	4.715	1.366

#1	1.135	14.65	1.112	73.00	126.0	21210.
#2	.9666	14.18	.5266	74.17	135.5	20670.
#3	1.107	13.65	.8546	73.71	124.3	20780.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-J-1-B Acquired: 6/1/2018 1:49:07 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	88520.	1430.	F 262600.	600.9	-2.949	1.075
Stddev	787.	9.	3591.	13.8	.482	.956
%RSD	.8889	.6033	1.367	2.293	16.35	88.85

#1	87900.	1426.	266700.	608.5	-2.554	1.136
#2	89410.	1440.	260700.	609.2	-2.808	.0913
#3	88260.	1425.	260300.	585.0	-3.486	2.000

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.593	13.19	.9702	32.23	54.88	2.599
Stddev	1.937	6.25	.5118	1.06	1.79	.209
%RSD	34.62	47.38	52.75	3.285	3.257	8.054

#1	7.814	16.05	.8125	32.62	55.12	2.793
#2	4.709	17.50	1.542	33.04	56.54	2.625
#3	4.256	6.022	.5559	31.03	52.99	2.377

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-J-1-B Acquired: 6/1/2018 1:49:07 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4717	222.0	1.780	6020.
Stddev	1.001	4.1	.156	37.
%RSD	212.2	1.844	8.777	.6196

#1	1.025	226.7	1.605	6044.
#2	-.6838	219.5	1.905	6039.
#3	1.074	219.8	1.831	5977.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2223.8	54629.	8970.8
Stddev	9.1	526.	85.8
%RSD	.40965	.96288	.95649

#1	2234.0	55236.	8890.5
#2	2216.7	54350.	9061.2
#3	2220.6	54302.	8960.8

Sample Name: 460-157038-H-1-B MS Acquired: 6/1/2018 1:57:01 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2449.	1978.	49.36	1947.	46.62	191500.
Stddev	23.	17.	.32	12.	.19	744.
%RSD	.9227	.8821	.6525	.6258	.4105	.3887

#1	2471.	1985.	49.71	1955.	46.44	192000.
#2	2426.	1991.	49.30	1954.	46.62	191900.
#3	2450.	1958.	49.07	1933.	46.82	190700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.17	477.2	197.8	317.0	1130.	40320.
Stddev	.48	3.3	.9	1.2	9.	188.
%RSD	.9857	.7006	.4570	.3885	.7786	.4650

#1	49.38	478.6	196.9	317.8	1135.	40220.
#2	49.51	479.6	197.8	317.7	1120.	40210.
#3	48.61	473.4	198.7	315.6	1135.	40540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-H-1-B MS Acquired: 6/1/2018 1:57:01 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	110100.	1962.	F 281700.	1044.	470.7	484.5
Stddev	345.	9.	1706.	7.	3.0	3.8
%RSD	.3137	.4520	.6059	.7100	.6387	.7914

#1	110200.	1965.	281500.	1049.	473.2	487.7
#2	110400.	1969.	280100.	1048.	471.5	485.7
#3	109800.	1952.	283400.	1036.	467.3	480.3

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2054.	1990.	472.6	539.2	536.7	495.4
Stddev	11.	81.	1.2	4.5	3.1	5.2
%RSD	.5260	4.064	.2507	.8310	.5825	1.052

#1	2054.	1926.	473.7	542.9	537.5	497.4
#2	2065.	2081.	472.7	540.6	539.3	499.3
#3	2043.	1964.	471.3	534.2	533.2	489.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-H-1-B MS Acquired: 6/1/2018 1:57:01 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	503.5	699.4	500.8	5924.
Stddev	3.0	3.9	2.7	24.
%RSD	.6057	.5586	.5292	.4083

#1	505.5	701.5	502.7	5951.
#2	505.1	694.9	502.1	5907.
#3	500.0	701.9	497.8	5912.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2231.6	54132.	8853.4
Stddev	4.4	238.	70.5
%RSD	.19835	.44024	.79618

#1	2235.7	54405.	8933.8
#2	2232.2	54025.	8824.2
#3	2226.9	53966.	8802.2

Sample Name: CCV Acquired: 6/1/2018 2:08:20 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125200.	2479.	1208.	9882.	970.4	122300.
Stddev	560.	10.	8.	79.	2.3	702.
%RSD	.4469	.3976	.6653	.7967	.2373	.5738

#1	125900.	2487.	1217.	9923.	971.4	123000.
#2	124900.	2480.	1206.	9933.	967.7	122400.
#3	124900.	2468.	1201.	9791.	972.0	121600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1234.	2377.	4916.	12360.	100400.	48990.
Stddev	8.	23.	50.	36.	1334.	196.
%RSD	.6596	.9795	1.014	.2910	1.329	.3997

#1	1239.	2391.	4966.	12390.	101700.	49080.
#2	1239.	2389.	4915.	12360.	100400.	48760.
#3	1225.	2350.	4866.	12320.	99020.	49120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 2:08:20 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122900.	5126.	121300.	2353.	7242.	973.0
Stddev	872.	27.	822.	23.	50.	12.3
%RSD	.7095	.5337	.6780	.9787	.6941	1.268

#1	123700.	5152.	122200.	2368.	7277.	981.0
#2	123000.	5127.	121000.	2365.	7265.	979.2
#3	122000.	5098.	120600.	2327.	7185.	958.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2507.	F 1917.	2403.	2541.	968.4	2503.
Stddev	13.	76.	34.	19.	6.8	22.
%RSD	.5185	3.949	1.411	.7312	.7022	.8826

#1	2520.	1907.	2438.	2554.	973.5	2518.
#2	2505.	1847.	2400.	2550.	971.1	2513.
#3	2494.	1997.	2370.	2520.	960.7	2477.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		2500.				
Range		-10.50%				

Sample Name: CCV Acquired: 6/1/2018 2:08:20 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1012.	4794.	9942.	9232.
Stddev	13.	20.	60.	54.
%RSD	1.269	.4207	.6057	.5813

#1	1021.	4794.	9998.	9287.
#2	1018.	4815.	9949.	9180.
#3	997.6	4775.	9878.	9231.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2195.3	55149.	8855.2
Stddev	3.9	197.	13.4
%RSD	.17815	.35654	.15185

#1	2191.0	54922.	8868.0
#2	2196.3	55266.	8856.2
#3	2198.6	55259.	8841.2

Sample Name: CCVL Acquired: 6/1/2018 2:16:18 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	221.2	14.37	9.478	206.0	2.035	5018.
Stddev	5.4	1.73	.242	4.0	.076	33.
%RSD	2.445	12.02	2.549	1.956	3.747	.6657

#1	227.3	15.54	9.742	208.1	1.947	5025.
#2	219.5	15.18	9.425	208.6	2.071	5048.
#3	216.9	12.38	9.268	201.4	2.086	4982.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.975	49.19	10.44	24.33	159.5	4891.
Stddev	.078	1.03	.26	.17	10.5	23.
%RSD	1.970	2.095	2.483	.6815	6.618	.4765

#1	4.055	49.91	10.58	24.51	166.6	4904.
#2	3.972	49.65	10.60	24.30	164.5	4864.
#3	3.898	48.01	10.14	24.18	147.4	4906.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 2:16:18 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5025.	15.94	4602.	38.02	10.08	21.68
Stddev	42.	.07	24.	.77	.39	.48
%RSD	.8363	.4381	.5281	2.014	3.823	2.212

#1	5044.	16.00	4574.	38.29	10.38	21.99
#2	5055.	15.95	4616.	38.62	10.21	21.93
#3	4977.	15.86	4615.	37.16	9.644	21.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.93	20.35	47.06	31.82	51.45	20.86
Stddev	1.23	11.76	.76	.94	.64	.59
%RSD	5.874	57.78	1.617	2.953	1.235	2.812

#1	21.03	18.75	46.73	32.34	51.91	21.25
#2	22.11	32.83	47.93	32.39	51.71	21.15
#3	19.66	9.471	46.52	30.74	50.73	20.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 2:16:18 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.05	19.10	21.35	F 104.2
Stddev	1.06	.04	.11	6.1
%RSD	2.008	.1995	.5191	5.888

#1	54.27	19.08	21.39	109.7
#2	52.33	19.14	21.43	105.3
#3	52.54	19.08	21.22	97.61

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2399.3	60194.	9027.5
Stddev	7.2	111.	52.5
%RSD	.29898	.18488	.58134

#1	2396.0	60302.	9088.0
#2	2394.3	60079.	8999.4
#3	2407.5	60200.	8995.0

Sample Name: 460-157038-J-2-B Acquired: 6/1/2018 2:24:14 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	465.6	3.074	.0720	27.48	-.0503	174300.
Stddev	17.7	2.197	.1529	.30	.0427	1067.
%RSD	3.802	71.47	212.5	1.105	84.82	.6120

#1	445.4	5.199	.2136	27.43	-.0991	173200.
#2	472.6	.8113	.0924	27.80	-.0200	174400.
#3	478.7	3.212	-.0902	27.20	-.0318	175300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.130	14.68	1.102	76.15	140.5	21350.
Stddev	.049	.23	.371	.35	8.9	32.
%RSD	4.348	1.595	33.62	.4638	6.344	.1490

#1	1.147	14.48	.7107	76.20	145.3	21340.
#2	1.169	14.94	1.447	76.47	130.2	21380.
#3	1.075	14.63	1.148	75.77	146.0	21320.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-J-2-B Acquired: 6/1/2018 2:24:14 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91040.	1513.	F 266900.	615.6	-2.336	1.353
Stddev	490.	4.	950.	5.8	.215	1.577
%RSD	.5380	.2895	.3559	.9489	9.214	116.5

#1	90480.	1508.	267900.	612.0	-2.570	-.3628
#2	91260.	1516.	266700.	622.3	-2.295	1.686
#3	91370.	1514.	266000.	612.4	-2.145	2.737

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.751	17.78	.7437	31.41	57.50	2.778
Stddev	2.644	5.12	.9675	.29	1.19	.311
%RSD	55.64	28.82	130.1	.9230	2.073	11.20

#1	7.769	20.70	1.855	31.18	56.54	2.905
#2	2.846	11.86	.2894	31.74	58.84	3.005
#3	3.638	20.76	.0870	31.31	57.14	2.423

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-J-2-B Acquired: 6/1/2018 2:24:14 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.9743	224.7	1.813	6100.
Stddev	1.487	.7	.169	39.
%RSD	152.6	.3077	9.302	.6362

#1	.2466	225.2	1.946	6104.
#2	2.685	223.9	1.623	6137.
#3	-.0084	225.0	1.870	6060.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2222.6	54209.	8851.1
Stddev	20.7	411.	66.4
%RSD	.93290	.75770	.75061

#1	2246.1	54636.	8925.2
#2	2207.0	54175.	8831.1
#3	2214.6	53816.	8797.0

Sample Name: 460-157038-I-3-B Acquired: 6/1/2018 2:28:09 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.663	1.341	-.1278	.0439	.1018	20.63
Stddev	7.739	1.944	.0740	.0564	.0833	3.04
%RSD	211.2	144.9	57.90	128.5	81.77	14.73
#1	-2.478	-.4403	-.1524	-.0011	.0113	17.74
#2	3.414	1.050	-.0447	.1072	.1752	23.80
#3	-11.93	3.415	-.1864	.0256	.1190	20.34

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0770	.0299	.2302	-.6720	3.352	31.14
Stddev	.0390	.1750	.3488	.1290	5.239	.63
%RSD	50.64	585.0	151.5	19.20	156.3	2.014
#1	-.0366	.2255	.3713	-.7905	9.398	30.95
#2	-.1144	-.1119	.4863	-.5346	.1445	30.63
#3	-.0800	-.0239	-.1670	-.6910	.5132	31.84

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-I-3-B Acquired: 6/1/2018 2:28:09 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.972	-1.1264	61.46	-1.066	.5683	.8275
Stddev	3.129	.0727	8.04	.345	1.132	.9265
%RSD	62.93	57.52	13.09	32.37	199.2	112.0

#1	1.752	-.0442	70.74	-1.221	1.124	-.1956
#2	8.000	-.1526	57.11	-1.306	-.7343	1.610
#3	5.164	-.1823	56.53	-.6704	1.315	1.068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3405	-1.038	.0181	.8444	-3.089	.1818
Stddev	2.898	18.72	.6196	.1270	.271	.2774
%RSD	850.9	1803.	3414.	15.05	8.772	152.5

#1	-3.005	2.866	-.3629	.9774	-2.877	-.1344
#2	1.980	15.42	.7331	.7243	-3.394	.2959
#3	2.047	-21.41	-.3157	.8314	-2.997	.3840

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-I-3-B Acquired: 6/1/2018 2:28:09 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1091	.1979	.0435	-108.4
Stddev	.9961	.0807	.0389	3.2
%RSD	912.6	40.76	89.41	2.922

#1	.9372	.1083	.0744	-111.7
#2	-1.046	.2208	-.0002	-107.9
#3	-.2187	.2647	.0562	-105.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2435.7	61024.	9032.1
Stddev	11.4	279.	56.0
%RSD	.46724	.45692	.62001

#1	2448.5	61346.	9087.8
#2	2431.5	60876.	9032.6
#3	2427.0	60851.	8975.8

Sample Name: 460-157113-F-1-B Acquired: 6/1/2018 2:32:11 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	215.0	1.044	.0526	62.17	.0478	61150.
Stddev	7.5	.966	.2573	1.09	.0620	546.
%RSD	3.469	92.52	488.7	1.758	129.9	.8931

#1	222.4	1.023	.1556	62.93	.0123	61340.
#2	214.9	2.021	.2425	62.66	.0117	61580.
#3	207.5	.0887	-.2401	60.92	.1194	60540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0706	.0772	.6953	1.034	.2406	14530.
Stddev	.0539	.2383	.4025	.304	10.82	48.
%RSD	76.34	308.7	57.90	29.39	4495.	.3276

#1	-.0807	.0226	.2511	1.030	7.978	14470.
#2	-.1187	.3381	1.036	1.340	-12.12	14550.
#3	-.0124	-.1291	.7986	.7322	4.861	14560.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157113-F-1-B Acquired: 6/1/2018 2:32:11 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15770.	31.45	39620.	3.321	-5.751	1.126
Stddev	125.	.23	90.	.170	1.026	.517
%RSD	.7950	.7196	.2283	5.109	17.84	45.87

#1	15790.	31.58	39580.	3.356	-5.484	1.647
#2	15880.	31.59	39730.	3.470	-6.883	1.116
#3	15630.	31.19	39560.	3.136	-4.884	.6144

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.133	10.46	.0961	6.118	15.32	31.29
Stddev	5.451	9.09	.4504	.037	.47	.67
%RSD	481.0	86.90	468.8	.6040	3.052	2.141

#1	.7250	15.98	-.3965	6.076	15.68	31.53
#2	-4.102	-.0310	.1979	6.147	15.48	31.81
#3	6.777	15.44	.4868	6.129	14.79	30.53

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157113-F-1-B Acquired: 6/1/2018 2:32:11 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.784	306.7	1.739	9255.
Stddev	.888	1.1	.022	118.
%RSD	49.80	.3450	1.265	1.274

#1	2.171	307.5	1.751	9343.
#2	.7678	307.1	1.714	9301.
#3	2.414	305.5	1.753	9121.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2342.7	57671.	8954.0
Stddev	2.7	137.	52.8
%RSD	.11413	.23734	.58967

#1	2342.5	57826.	9008.4
#2	2340.1	57569.	8950.5
#3	2345.5	57616.	8903.0

Sample Name: 460-157114-E-1-B Acquired: 6/1/2018 2:40:05 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	223.0	40.20	.1607	35.14	.0530	60500.
Stddev	6.9	1.86	.0480	.20	.0031	46.
%RSD	3.094	4.630	29.86	.5615	5.938	.0755
#1	216.5	38.64	.2145	35.25	.0496	60490.
#2	230.2	39.69	.1224	34.91	.0558	60550.
#3	222.1	42.26	.1451	35.25	.0537	60460.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1586	4.746	.3226	3.121	14.56	5939.
Stddev	.0386	.419	.4468	.022	6.48	47.
%RSD	24.35	8.819	138.5	.7096	44.53	.7965
#1	.1437	4.956	.4382	3.115	20.83	5896.
#2	.2024	5.019	-.1707	3.103	14.96	5931.
#3	.1296	4.264	.7002	3.146	7.886	5990.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157114-E-1-B Acquired: 6/1/2018 2:40:05 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12050.	862.3	61610.	2.877	-6.457	14.49
Stddev	20.	.9	206.	.037	.329	1.41
%RSD	.1662	.1016	.3343	1.293	5.089	9.707

#1	12030.	862.9	61720.	2.855	-6.276	15.24
#2	12070.	861.3	61750.	2.856	-6.837	15.37
#3	12050.	862.6	61370.	2.920	-6.259	12.87

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8362	3.908	5.086	46.57	51.65	444.1
Stddev	.3158	14.38	.823	.30	.09	2.1
%RSD	37.77	367.9	16.17	.6530	.1835	.4829

#1	1.197	-5.988	6.035	46.30	51.61	444.4
#2	.7001	20.40	4.583	46.90	51.76	446.1
#3	.6112	-2.686	4.640	46.52	51.59	441.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157114-E-1-B Acquired: 6/1/2018 2:40:05 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.5772	351.1	4.064	8897.
Stddev	.6390	3.2	.053	95.
%RSD	110.7	.9172	1.309	1.068

#1	-.0650	347.4	4.102	8802.
#2	-.3735	352.6	4.003	8896.
#3	-1.293	353.3	4.087	8992.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2323.2	57505.	8990.0
Stddev	12.2	278.	74.2
%RSD	.52343	.48354	.82575

#1	2336.6	57775.	8914.9
#2	2320.2	57521.	8991.9
#3	2312.9	57220.	9063.3

Sample Name: 460-157114-E-2-B Acquired: 6/1/2018 2:44:02 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	224.0	.9325	-.0200	75.36	.0425	60850.
Stddev	5.3	1.750	.1228	.24	.0429	199.
%RSD	2.352	187.6	614.6	.3227	101.0	.3270

#1	219.1	-.4239	-.0409	75.55	.0308	60900.
#2	229.6	2.908	.1119	75.44	.0900	60630.
#3	223.5	.3139	-.1310	75.08	.0066	61010.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0837	24.88	.6795	7.931	10.16	6199.
Stddev	.0573	.36	.3864	.202	6.42	21.
%RSD	68.45	1.441	56.86	2.542	63.15	.3459

#1	.1444	25.07	1.002	8.164	8.472	6218.
#2	.0762	25.10	.2511	7.829	4.757	6202.
#3	.0306	24.46	.7859	7.801	17.25	6176.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157114-E-2-B Acquired: 6/1/2018 2:44:02 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15180.	1387.	35820.	7.364	-5.392	2.591
Stddev	17.	5.	163.	.282	.329	1.489
%RSD	.1120	.3687	.4538	3.836	6.109	57.45

#1	15190.	1384.	35640.	7.329	-5.082	3.032
#2	15170.	1383.	35960.	7.100	-5.357	3.809
#3	15200.	1392.	35850.	7.662	-5.738	.9317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4893	10.02	1.512	13.37	38.65	48.75
Stddev	1.750	7.60	.275	.12	.83	.21
%RSD	357.7	75.80	18.17	.8658	2.152	.4221

#1	-.6325	2.694	1.418	13.25	39.49	48.96
#2	-.4059	17.87	1.821	13.48	37.83	48.75
#3	2.506	9.515	1.296	13.37	38.63	48.54

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157114-E-2-B Acquired: 6/1/2018 2:44:02 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1765	327.5	1.724	9305.
Stddev	.8141	.8	.101	95.
%RSD	461.2	.2516	5.864	1.020

#1	-.5465	328.4	1.735	9404.
#2	-.7399	327.3	1.820	9294.
#3	.7568	326.8	1.618	9215.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2340.2	58145.	9042.0
Stddev	9.8	318.	119.3
%RSD	.41886	.54686	1.3196

#1	2332.5	58414.	9149.4
#2	2351.2	58228.	9062.9
#3	2336.8	57794.	8913.6

Sample Name: 460-156939-E-7-A Acquired: 6/1/2018 2:47:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91.86	3.012	-.0771	7.974	.0382	23900.
Stddev	4.49	1.500	.2449	.255	.0485	144.
%RSD	4.883	49.80	317.6	3.196	127.2	.6040

#1	86.93	4.604	-.1641	8.246	.0413	23990.
#2	92.95	1.624	.1994	7.933	-.0118	23970.
#3	95.69	2.809	-.2666	7.741	.0851	23730.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0108	2.525	.6587	7.675	26.50	19960.
Stddev	.0637	.032	.0458	.214	8.88	47.
%RSD	587.5	1.249	6.948	2.790	33.52	.2374

#1	-.0018	2.489	.6093	7.678	34.68	19910.
#2	-.0785	2.550	.6671	7.460	27.77	19980.
#3	.0478	2.534	.6997	7.888	17.05	20000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-E-7-A Acquired: 6/1/2018 2:47:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6636.	14.41	34510.	3.176	.0288	1.078
Stddev	31.	.14	90.	.182	.4856	.300
%RSD	.4630	.9390	.2603	5.741	1688.	27.79

#1	6658.	14.53	34460.	2.967	.3084	.7932
#2	6649.	14.44	34620.	3.257	.3098	1.391
#3	6601.	14.26	34460.	3.304	-.5319	1.051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1617	9.089	1.673	20.08	21.88	1.027
Stddev	.9376	9.576	.391	.24	.49	.233
%RSD	579.9	105.4	23.36	1.181	2.219	22.63

#1	-.9205	-.6848	1.236	20.10	21.34	1.197
#2	.7313	9.495	1.988	20.30	22.04	.7624
#3	.6743	18.46	1.795	19.83	22.27	1.123

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-E-7-A Acquired: 6/1/2018 2:47:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2570	37.36	1.219	2560.
Stddev	.9882	.27	.070	8.
%RSD	384.5	.7245	5.715	.3284

#1	.4879	37.48	1.267	2569.
#2	1.109	37.55	1.250	2553.
#3	-.8262	37.05	1.139	2557.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2378.7	58595.	8979.2
Stddev	16.1	201.	76.8
%RSD	.67586	.34238	.85484

#1	2396.1	58822.	9057.2
#2	2375.6	58442.	8976.7
#3	2364.4	58521.	8903.8

Sample Name: 460-156939-E-8-A Acquired: 6/1/2018 2:51:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	98.14	.6092	-.0396	2.321	.0644	20340.
Stddev	10.79	.6372	.0648	.049	.0646	83.
%RSD	10.99	104.6	163.8	2.105	100.4	.4065

#1	96.94	.2506	-.0108	2.377	-.0077	20430.
#2	88.00	.2320	.0059	2.303	.1173	20270.
#3	109.5	1.345	-.1138	2.284	.0834	20310.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0456	2.456	7.109	8.019	153.8	29910.
Stddev	.0564	.139	.161	.157	3.8	80.
%RSD	123.6	5.645	2.258	1.964	2.492	.2686

#1	.0486	2.586	7.233	7.837	154.9	29820.
#2	.1004	2.473	6.928	8.095	157.0	29980.
#3	-.0122	2.310	7.167	8.123	149.6	29930.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-E-8-A Acquired: 6/1/2018 2:51:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3959.	5.879	13210.	14.90	-.1440	1.187
Stddev	12.	.011	54.	.31	.7160	.976
%RSD	.3003	.1822	.4052	2.065	497.0	82.23

#1	3972.	5.880	13190.	14.72	.5354	.8278
#2	3948.	5.889	13180.	15.26	-.8917	.4414
#3	3958.	5.868	13270.	14.74	-.0758	2.291

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.120	10.06	3.049	15.54	20.46	1.679
Stddev	1.443	8.95	.252	.20	.62	.164
%RSD	68.09	88.95	8.270	1.304	3.013	9.784

#1	3.039	4.993	2.786	15.33	20.55	1.508
#2	2.863	20.39	3.072	15.57	19.80	1.836
#3	.4561	4.793	3.289	15.73	21.03	1.691

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-E-8-A Acquired: 6/1/2018 2:51:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3963	47.64	1.240	1964.
Stddev	.2203	.10	.110	18.
%RSD	55.58	.1995	8.892	.9065

#1	-.6458	47.59	1.310	1944.
#2	-.3141	47.58	1.113	1975.
#3	-.2290	47.75	1.296	1974.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2397.0	59687.	9191.6
Stddev	6.1	339.	15.1
%RSD	.25311	.56712	.16390

#1	2403.9	59888.	9194.0
#2	2394.5	59877.	9175.5
#3	2392.6	59297.	9205.4

Sample Name: 460-156939-D-9-A Acquired: 6/1/2018 2:55:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	69.18	.5425	.0537	.0979	.0142	16630.
Stddev	9.16	1.268	.0939	.0684	.0789	54.
%RSD	13.24	233.7	174.7	69.81	556.8	.3264

#1	59.09	-.5083	.1014	.1228	.0788	16650.
#2	76.96	1.951	-.0544	.1504	.0375	16670.
#3	71.48	.1854	.1142	.0206	-.0737	16570.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0348	1.189	.0068	2.340	3801.	11270.
Stddev	.0503	.029	.2883	.321	30.	92.
%RSD	144.8	2.408	4240.	13.72	.7862	.8185

#1	-.0423	1.221	-.2578	2.357	3820.	11370.
#2	.0189	1.166	.3140	2.010	3817.	11270.
#3	-.0809	1.180	-.0358	2.652	3767.	11180.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-D-9-A Acquired: 6/1/2018 2:55:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3889.	12.77	13410.	1.199	-.5559	.8216
Stddev	20.	.11	49.	.176	1.705	.8719
%RSD	.5117	.8704	.3675	14.70	306.6	106.1

#1	3910.	12.78	13460.	1.071	-.6731	.3857
#2	3887.	12.88	13410.	1.400	1.204	.2537
#3	3870.	12.65	13370.	1.126	-2.199	1.825

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1961	-4.079	2.575	27.42	7.246	.9067
Stddev	1.312	16.74	.550	.12	.474	.1465
%RSD	668.9	410.3	21.37	.4213	6.539	16.16

#1	-1.292	-21.82	2.761	27.37	7.367	.7563
#2	1.186	-1.854	3.008	27.55	7.648	1.049
#3	.6938	11.43	1.956	27.33	6.723	.9145

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-D-9-A Acquired: 6/1/2018 2:55:58 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0545	74.62	.9631	1409.
Stddev	.6649	.23	.0474	19.
%RSD	1220.	.3098	4.917	1.345

#1	-.4824	74.86	.9868	1431.
#2	.7115	74.39	.9939	1396.
#3	-.3926	74.63	.9086	1401.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2407.5	59562.	9183.3
Stddev	6.7	280.	32.3
%RSD	.27657	.46984	.35192

#1	2415.2	59872.	9194.1
#2	2403.9	59487.	9147.0
#3	2403.4	59327.	9208.8

Sample Name: CCB Acquired: 6/1/2018 3:03:54 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.642	-1.293	-.3385	-.0304	.0544	-2.944
Stddev	2.953	2.514	.0815	.0318	.0807	3.047
%RSD	179.8	194.5	24.07	104.4	148.5	103.5

#1	-1.295	-1.414	-.2444	.0048	.1352	-.3938
#2	1.122	-3.744	-.3850	-.0571	.0543	-2.118
#3	-4.754	1.280	-.3860	-.0390	-.0263	-6.318

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0373	.0491	.2515	-.5567	2.178	40.28
Stddev	.0417	.0496	.3788	.2118	3.460	20.23
%RSD	112.0	100.9	150.6	38.05	158.9	50.23

#1	.0473	.1055	.1843	-.3481	6.113	60.43
#2	.0731	.0122	-.0891	-.5502	.8058	40.42
#3	-.0086	.0298	.6594	-.7716	-.3856	19.98

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 3:03:54 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.408	-.1574	21.47	-.9403	.3122	1.627
Stddev	3.633	.0487	13.30	.1956	.7375	.460
%RSD	106.6	30.91	61.96	20.80	236.2	28.25

#1	7.329	-.1071	34.68	-1.164	-.1422	1.498
#2	2.738	-.1609	21.65	-.8588	-.0843	2.137
#3	.1565	-.2042	8.077	-.7987	1.163	1.246

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5621	-.1812	-.1716	-.2739	.8544	1.662
Stddev	3.783	7.022	.1126	.0930	.7180	.292
%RSD	673.0	3876.	65.64	33.97	84.03	17.59

#1	2.525	5.198	-.0905	-.1670	1.496	1.999
#2	2.960	-8.125	-.1241	-.3364	.9876	1.512
#3	-3.799	2.384	-.3002	-.3183	.0792	1.475

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 3:03:54 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.684	.0726	1.130	-17.41
Stddev	.341	.0561	.185	8.85
%RSD	20.25	77.36	16.34	50.85

#1	1.483	.1330	1.336	-9.049
#2	2.078	.0627	.9808	-26.69
#3	1.492	.0220	1.072	-16.50

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2418.5	61056.	9045.5
Stddev	8.0	162.	40.4
%RSD	.33270	.26455	.44710

#1	2422.3	61198.	9082.2
#2	2409.3	61090.	9052.1
#3	2424.0	60880.	9002.1

Sample Name: 460-156939-D-10-A Acquired: 6/1/2018 3:11:55 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66.91	-1.294	-.2855	.4474	.0537	17240.
Stddev	3.59	2.495	.0523	.0794	.0456	142.
%RSD	5.364	192.9	18.31	17.74	84.84	.8205

#1	68.75	-3.728	-.2905	.4644	.1053	17380.
#2	62.78	-1.409	-.3352	.5169	.0368	17250.
#3	69.21	1.257	-.2310	.3609	.0190	17090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4824	.1702	.5193	1.800	15200.	31100.
Stddev	.0137	.0244	.3735	.086	144.	87.
%RSD	2.845	14.35	71.93	4.760	.9497	.2798

#1	-.4939	.1513	.7640	1.861	15310.	31200.
#2	-.4861	.1978	.7046	1.837	15260.	31050.
#3	-.4672	.1614	.0894	1.702	15040.	31050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-D-10-A Acquired: 6/1/2018 3:11:55 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5347.	102.2	14460.	4.239	-2.039	-.0203
Stddev	46.	.9	86.	.692	.414	.5768
%RSD	.8689	.9147	.5914	16.31	20.31	2835.

#1	5383.	103.1	14560.	5.037	-1.891	.5624
#2	5363.	102.2	14390.	3.849	-2.508	-.5911
#3	5294.	101.2	14450.	3.831	-1.720	-.0323

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.736	-17.10	8.892	13.78	12.50	.4646
Stddev	1.693	15.36	.624	.17	.55	.0312
%RSD	97.53	89.83	7.013	1.211	4.368	6.724

#1	1.642	-28.75	8.184	13.77	12.15	.4980
#2	3.474	-22.87	9.359	13.94	13.12	.4595
#3	.0920	.3088	9.132	13.61	12.21	.4362

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-D-10-A Acquired: 6/1/2018 3:11:55 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.021	21.66	1.211	5046.
Stddev	.427	.10	.052	30.
%RSD	41.79	.4793	4.304	.5995

#1	.5865	21.77	1.269	5037.
#2	1.439	21.57	1.197	5079.
#3	1.037	21.65	1.168	5021.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2396.6	59501.	9173.1
Stddev	17.0	239.	39.1
%RSD	.70830	.40196	.42587

#1	2415.9	59774.	9165.7
#2	2384.2	59403.	9215.3
#3	2389.6	59327.	9138.2

Sample Name: 460-156939-E-11-A Acquired: 6/1/2018 3:15:52 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	185.4	2.223	-.1719	47.93	.0831	27930.
Stddev	14.3	2.163	.3232	.21	.0688	136.
%RSD	7.704	97.26	188.1	.4289	82.80	.4871

#1	201.8	.8131	-.4433	48.02	.0606	28050.
#2	179.0	4.713	-.2580	48.08	.1603	27940.
#3	175.4	1.144	.1858	47.70	.0283	27780.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0025	.4514	.4513	2.956	955.5	4127.
Stddev	.0438	.1765	.4224	.069	6.9	27.
%RSD	1759.	39.11	93.60	2.343	.7194	.6492

#1	.0468	.5150	.1117	3.002	951.5	4144.
#2	-.0407	.5873	.9242	2.876	963.5	4096.
#3	.0015	.2519	.3178	2.989	951.6	4142.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-E-11-A Acquired: 6/1/2018 3:15:52 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2915.	3.677	3460.	.3091	-1.184	1.655
Stddev	14.	.048	20.	.0638	.407	.665
%RSD	.4894	1.311	.5839	20.63	34.41	40.21

#1	2931.	3.718	3483.	.2374	-.7179	1.182
#2	2904.	3.624	3445.	.3304	-1.359	1.367
#3	2909.	3.689	3453.	.3594	-1.473	2.415

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.119	16.65	4.330	11.82	8.484	.0784
Stddev	1.674	7.49	.072	.08	.320	.1626
%RSD	149.6	44.99	1.674	.6871	3.770	207.4

#1	.3788	13.61	4.397	11.90	8.533	-.0073
#2	-2.926	25.19	4.253	11.81	8.777	.2660
#3	-.8094	11.16	4.339	11.74	8.143	-.0234

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-E-11-A Acquired: 6/1/2018 3:15:52 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4731	102.8	1.572	2361.
Stddev	1.321	.1	.074	16.
%RSD	279.3	.1238	4.705	.6653

#1	.0812	102.9	1.529	2351.
#2	.4809	102.9	1.530	2352.
#3	-1.981	102.7	1.658	2379.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2414.5	60601.	9203.4
Stddev	2.5	303.	32.3
%RSD	.10335	.50003	.35100

#1	2417.1	60896.	9231.9
#2	2412.1	60618.	9168.4
#3	2414.3	60291.	9210.0

Sample Name: 460-156939-D-13-A Acquired: 6/1/2018 3:19:50 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.34	4.404	-1.036	45.17	.0385	4632.
Stddev	.97	1.054	.5123	.01	.0552	2.
%RSD	6.307	23.93	494.6	.0163	143.3	.0459

#1	14.46	5.074	-.6617	45.17	.0867	4632.
#2	16.38	3.189	.3452	45.17	-.0216	4635.
#3	15.19	4.949	.0058	45.18	.0504	4630.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0345	.4153	.2166	.3142	.7967	629.7
Stddev	.0623	.1510	.1263	.1669	6.263	8.1
%RSD	180.6	36.35	58.33	53.12	786.1	1.279

#1	.0049	.5205	.3257	.1582	-1.690	631.1
#2	-.1064	.2423	.2459	.4902	7.921	637.0
#3	-.0020	.4830	.0782	.2942	-3.841	621.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-D-13-A Acquired: 6/1/2018 3:19:50 Type: Unk

Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2543.	.9973	3569.	.0550	-3.349	1.865
Stddev	6.	.0372	10.	.3399	.385	.468
%RSD	.2285	3.732	.2821	617.6	11.50	25.11

#1	2537.	.9989	3576.	.1816	-3.762	2.111
#2	2544.	1.034	3574.	-.3300	-2.999	2.159
#3	2549.	.9594	3558.	.3134	-3.287	1.325

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.713	7.573	.0122	3.452	-.0316	.1457
Stddev	.992	5.431	.7216	.148	.1779	.1253
%RSD	26.72	71.71	5936.	4.282	562.5	85.96

#1	4.030	13.70	.3711	3.605	.1206	.2419
#2	4.508	5.654	-.8186	3.310	.0116	.0041
#3	2.601	3.362	.4839	3.440	-.2271	.1913

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156939-D-13-A Acquired: 6/1/2018 3:19:50 Type: Unk
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1009	64.73	.5047	5078.
Stddev	1.011	.19	.0774	32.
%RSD	1002.	.2939	15.34	.6377

#1	.1162	64.88	.4397	5090.
#2	.7836	64.51	.5903	5041.
#3	-1.202	64.78	.4840	5103.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2434.7	60910.	9153.6
Stddev	12.9	319.	39.6
%RSD	.53096	.52290	.43257

#1	2446.8	61224.	9158.4
#2	2436.2	60920.	9111.8
#3	2421.1	60587.	9190.5

Sample Name: CCV Acquired: 6/1/2018 3:23:49 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125400.	2481.	1205.	9848.	957.8	120600.
Stddev	297.	25.	9.	90.	4.3	600.
%RSD	.2367	1.008	.7778	.9115	.4503	.4976

#1	125700.	2504.	1216.	9947.	962.3	121300.
#2	125200.	2483.	1200.	9826.	957.4	120300.
#3	125200.	2455.	1199.	9772.	953.7	120200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1230.	2340.	4866.	12460.	100200.	48750.
Stddev	12.	25.	32.	121.	807.	91.
%RSD	.9739	1.087	.6582	.9718	.8054	.1858

#1	1242.	2366.	4902.	12590.	101000.	48850.
#2	1230.	2339.	4855.	12410.	100000.	48740.
#3	1218.	2315.	4841.	12360.	99430.	48670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 3:23:49 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121600.	5127.	121000.	2303.	7134.	964.8
Stddev	703.	34.	222.	22.	61.	11.3
%RSD	.5779	.6675	.1836	.9764	.8598	1.169

#1	122400.	5165.	121200.	2326.	7196.	977.3
#2	121300.	5118.	120800.	2303.	7133.	961.8
#3	121200.	5099.	120900.	2281.	7074.	955.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2516.	F 1972.	2380.	2511.	956.3	2490.
Stddev	22.	92.	22.	22.	6.4	28.
%RSD	.8598	4.672	.9452	.8891	.6657	1.115

#1	2527.	1980.	2406.	2533.	962.3	2518.
#2	2529.	2060.	2365.	2512.	956.9	2489.
#3	2491.	1876.	2368.	2489.	949.7	2462.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		2500.				
Range		-10.50%				

Sample Name: CCV Acquired: 6/1/2018 3:23:49 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1010.	4775.	9904.	9159.
Stddev	11.	18.	74.	100.
%RSD	1.086	.3871	.7507	1.094

#1	1021.	4771.	9989.	9226.
#2	1008.	4758.	9852.	9044.
#3	999.5	4795.	9872.	9207.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2208.2	55361.	8837.7
Stddev	8.4	172.	81.5
%RSD	.37918	.31028	.92164

#1	2199.1	55168.	8834.0
#2	2215.6	55495.	8758.2
#3	2209.8	55421.	8921.0

Sample Name: CCVL Acquired: 6/1/2018 3:31:46 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	227.2	14.93	9.389	204.9	2.033	4964.
Stddev	4.1	1.50	.194	2.3	.046	10.
%RSD	1.823	10.06	2.064	1.119	2.282	.1974

#1	231.1	16.59	9.235	207.3	2.038	4974.
#2	227.6	13.65	9.326	204.8	2.077	4963.
#3	222.8	14.56	9.607	202.7	1.985	4955.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.065	48.49	10.19	24.21	167.3	4828.
Stddev	.078	.44	.47	.27	8.7	50.
%RSD	1.916	.8987	4.619	1.102	5.202	1.045

#1	4.096	48.90	10.72	24.50	176.0	4875.
#2	3.976	48.53	10.06	24.16	158.6	4834.
#3	4.122	48.04	9.806	23.97	167.2	4775.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 3:31:46 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5011.	16.03	4581.	37.10	9.970	20.45
Stddev	17.	.04	13.	.61	.623	.90
%RSD	.3305	.2768	.2738	1.650	6.250	4.385

#1	5029.	16.08	4587.	37.62	10.16	21.47
#2	5007.	16.00	4589.	37.27	9.274	20.13
#3	4996.	16.00	4567.	36.43	10.48	19.76

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.69	24.96	48.10	31.72	50.27	20.72
Stddev	3.73	8.12	.49	.61	.69	.40
%RSD	16.42	32.52	1.023	1.916	1.378	1.927

#1	19.59	24.38	48.64	32.39	50.83	21.09
#2	21.67	17.15	47.97	31.56	49.50	20.77
#3	26.82	33.35	47.68	31.20	50.50	20.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 3:31:46 Type: QC
Method: xin05082018(v34) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

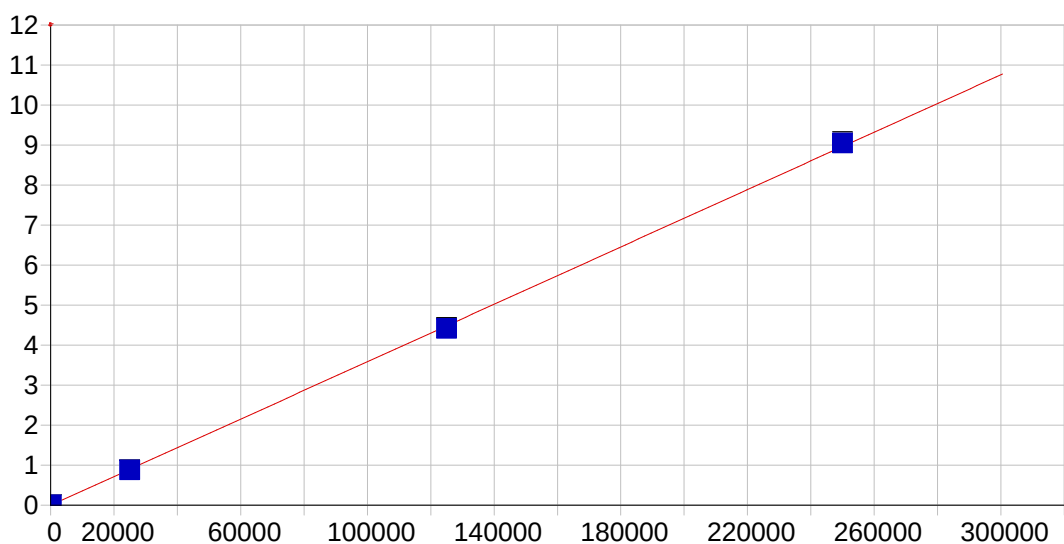
Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.82	18.82	21.26	F 102.5
Stddev	.76	.14	.18	17.6
%RSD	1.434	.7404	.8382	17.15

#1	53.46	18.98	21.32	89.84
#2	51.98	18.79	21.41	95.12
#3	53.02	18.70	21.06	122.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2416.2	60363.	9088.6
Stddev	10.3	150.	53.4
%RSD	.42480	.24907	.58776

#1	2411.8	60224.	9133.2
#2	2427.9	60522.	9029.4
#3	2408.9	60343.	9103.1

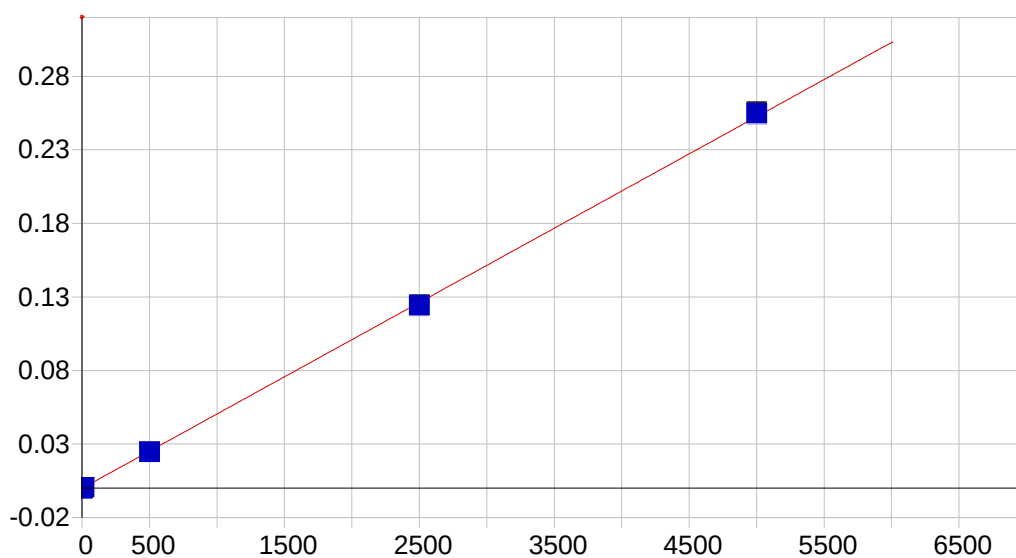


AI 396.152 { 85}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

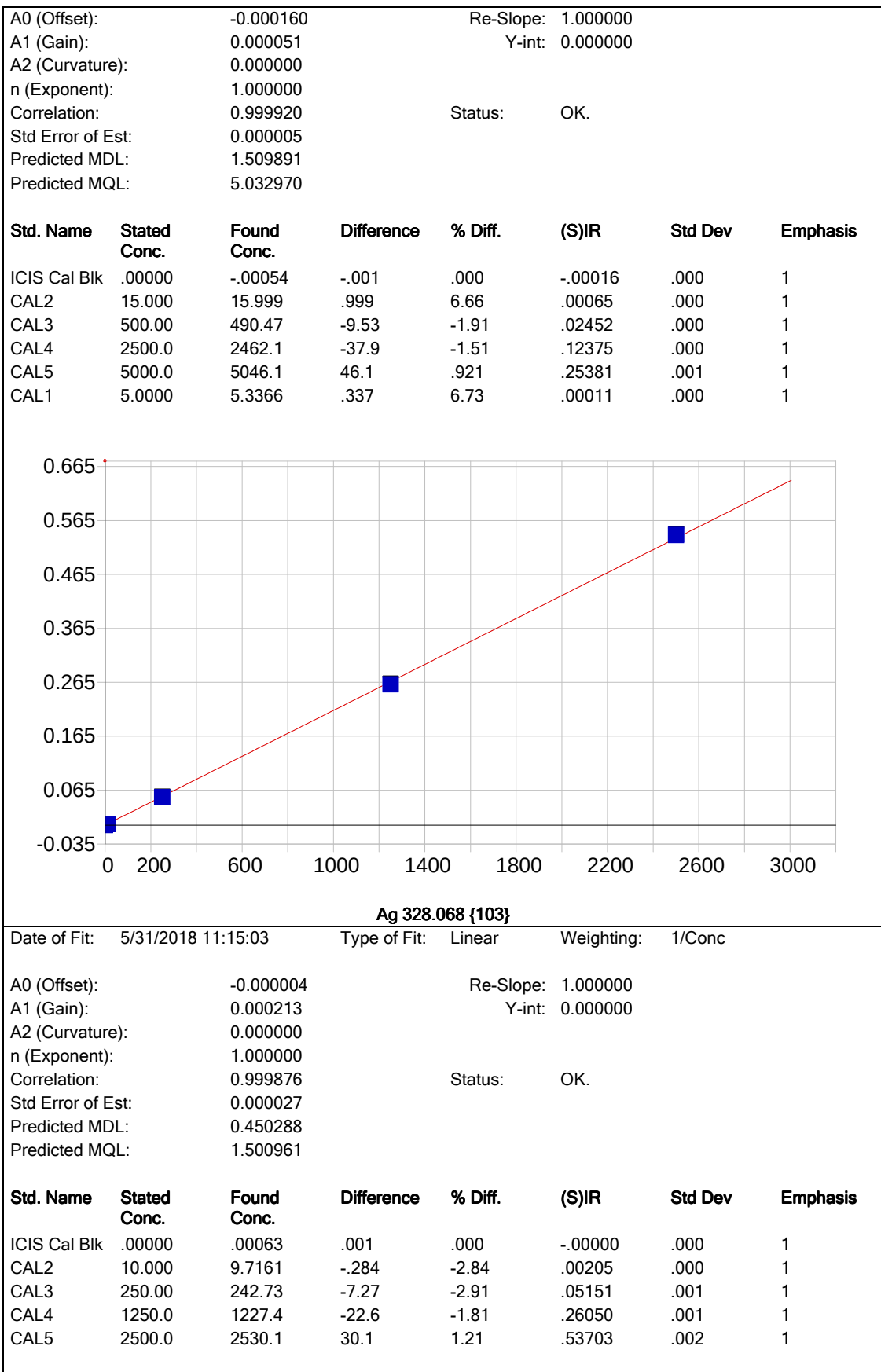
A0 (Offset): 0.000448 Re-Slope: 1.000000
 A1 (Gain): 0.000036 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999928 Status: OK.
 Std Error of Est: 0.000157
 Predicted MDL: 10.841866
 Predicted MQL: 36.139553

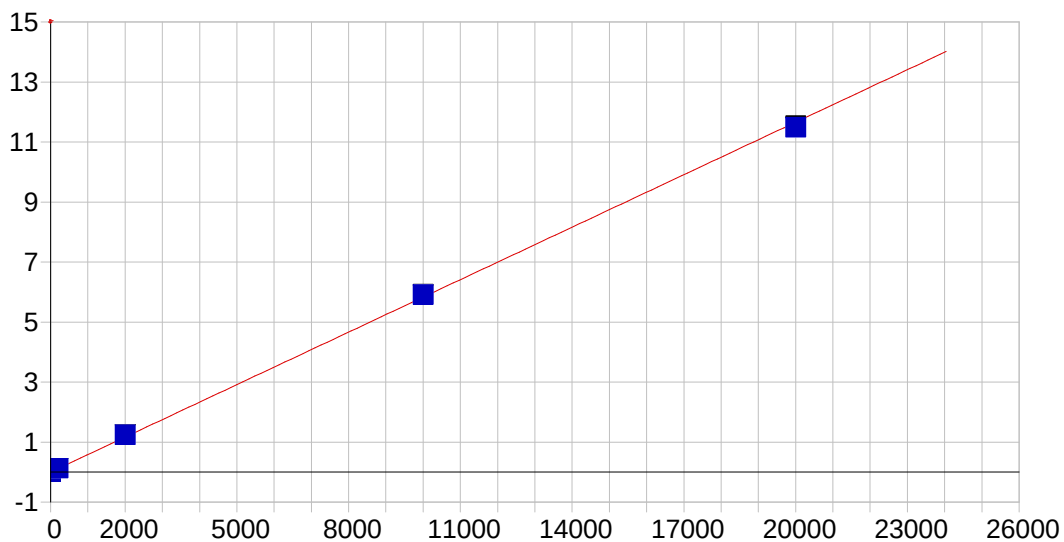
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00407	.004	.000	.00045	.000	1
CAL2	200.00	200.92	.924	.462	.00767	.000	1
CAL3	25000.	24509.	-491.	-1.96	.87977	.005	1
CAL4	125000.	123170.	-1830.	-1.46	4.4197	.015	1
CAL5	250000.	252320.	2320.	.926	9.0528	.028	1



As 189.042 {478}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc



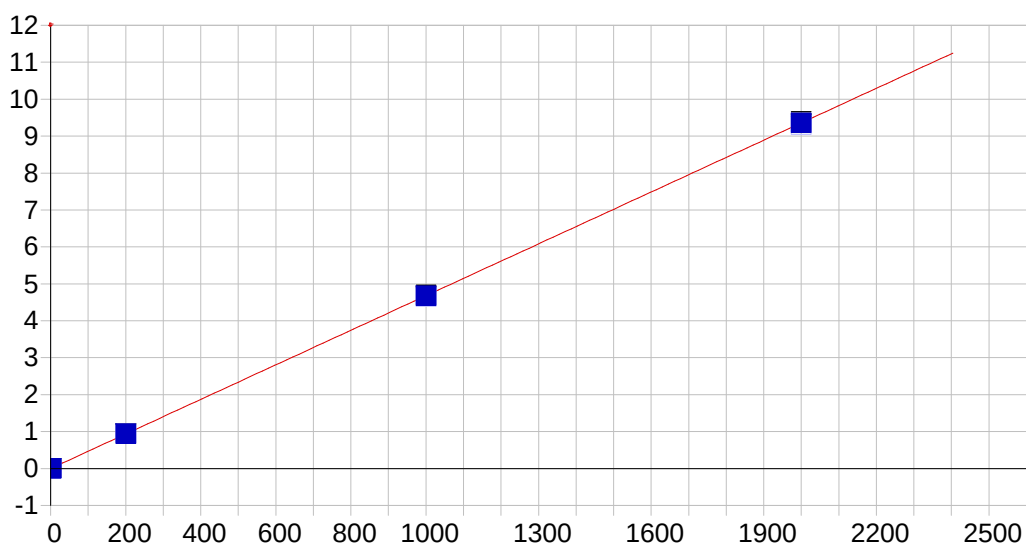


Ba 233.527 {445}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000047 Re-Slope: 1.000000
 A1 (Gain): 0.000583 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999722 Status: OK.
 Std Error of Est: 0.001422
 Predicted MDL: 0.159481
 Predicted MQL: 0.531605

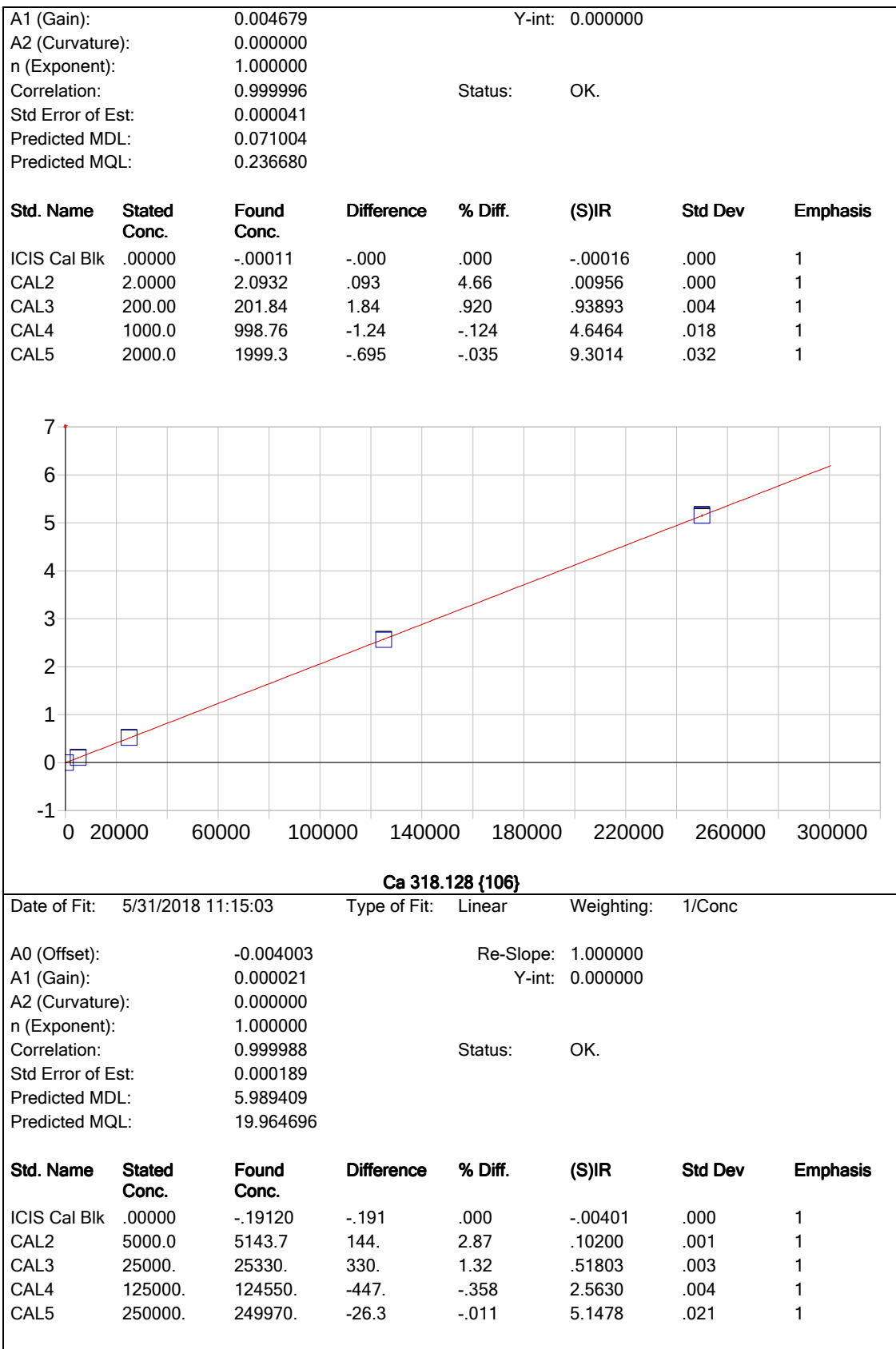
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.03596	-.036	.000	.00003	.000	1
CAL2	200.00	222.71	22.7	11.4	.12984	.000	1
CAL3	2000.0	2134.5	134.	6.72	1.2440	.002	1
CAL4	10000.	10138.	138.	1.38	5.9083	.016	1
CAL5	20000.	19705.	-295.	-1.47	11.484	.041	1

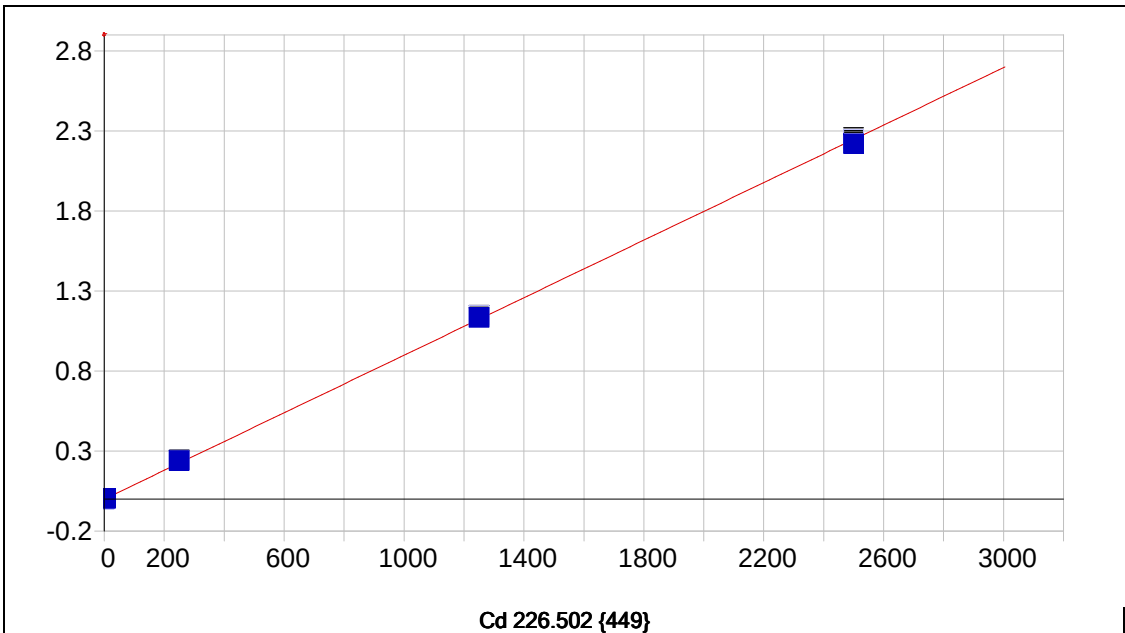


Be 313.042 {108}

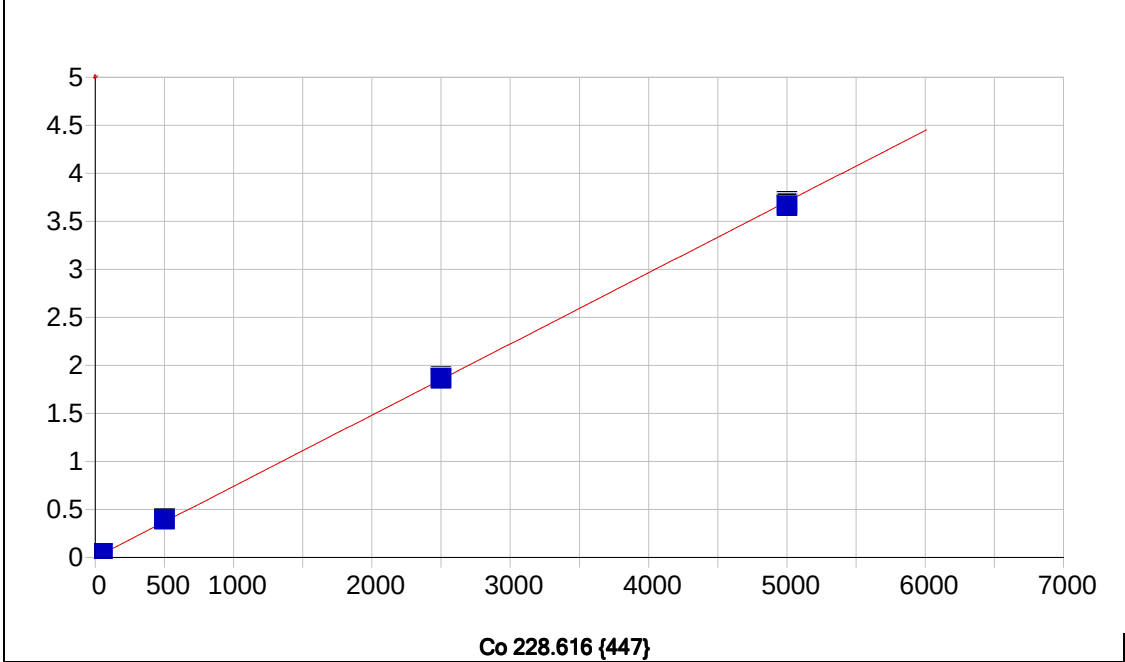
Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000156 Re-Slope: 1.000000

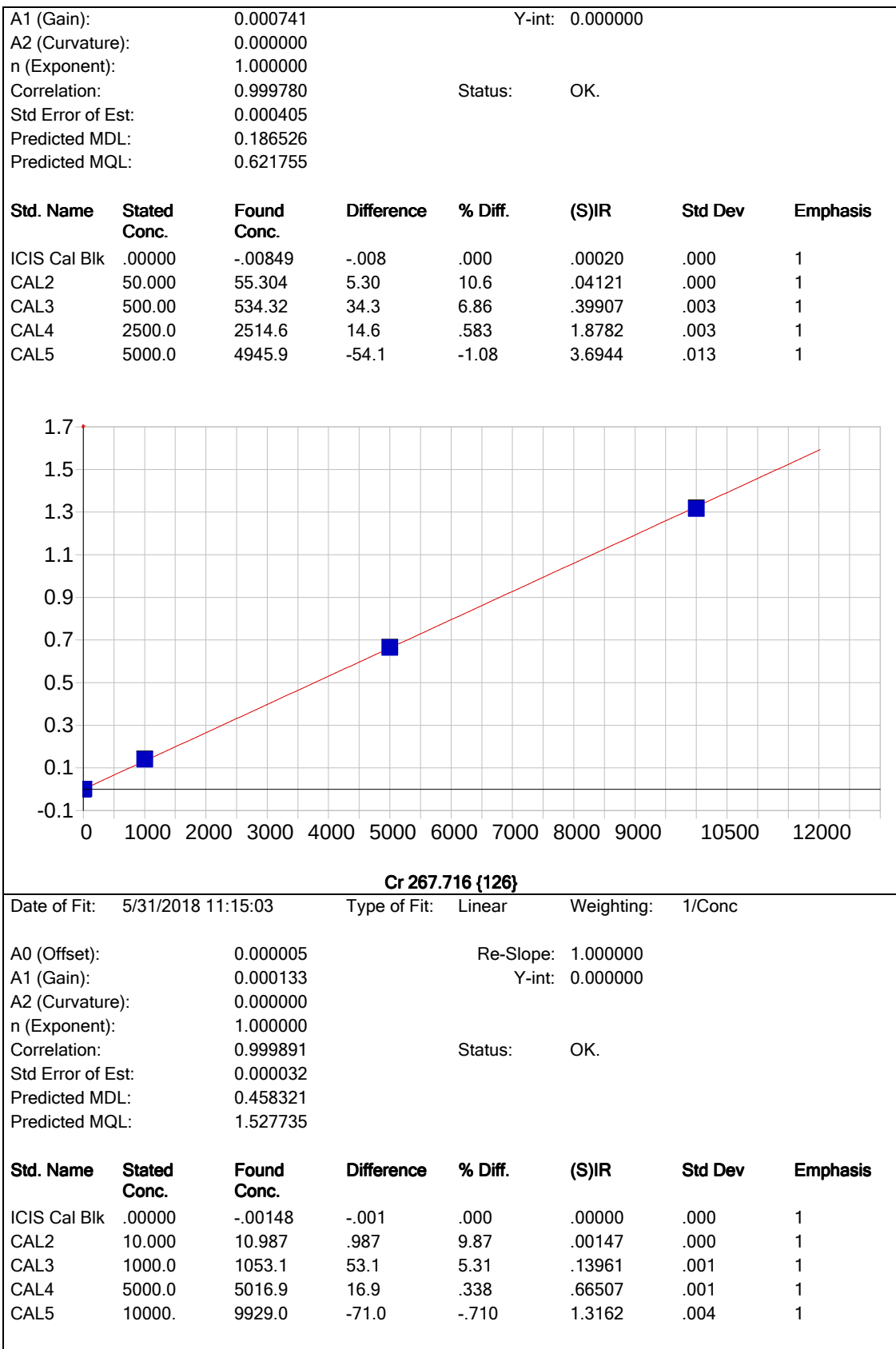


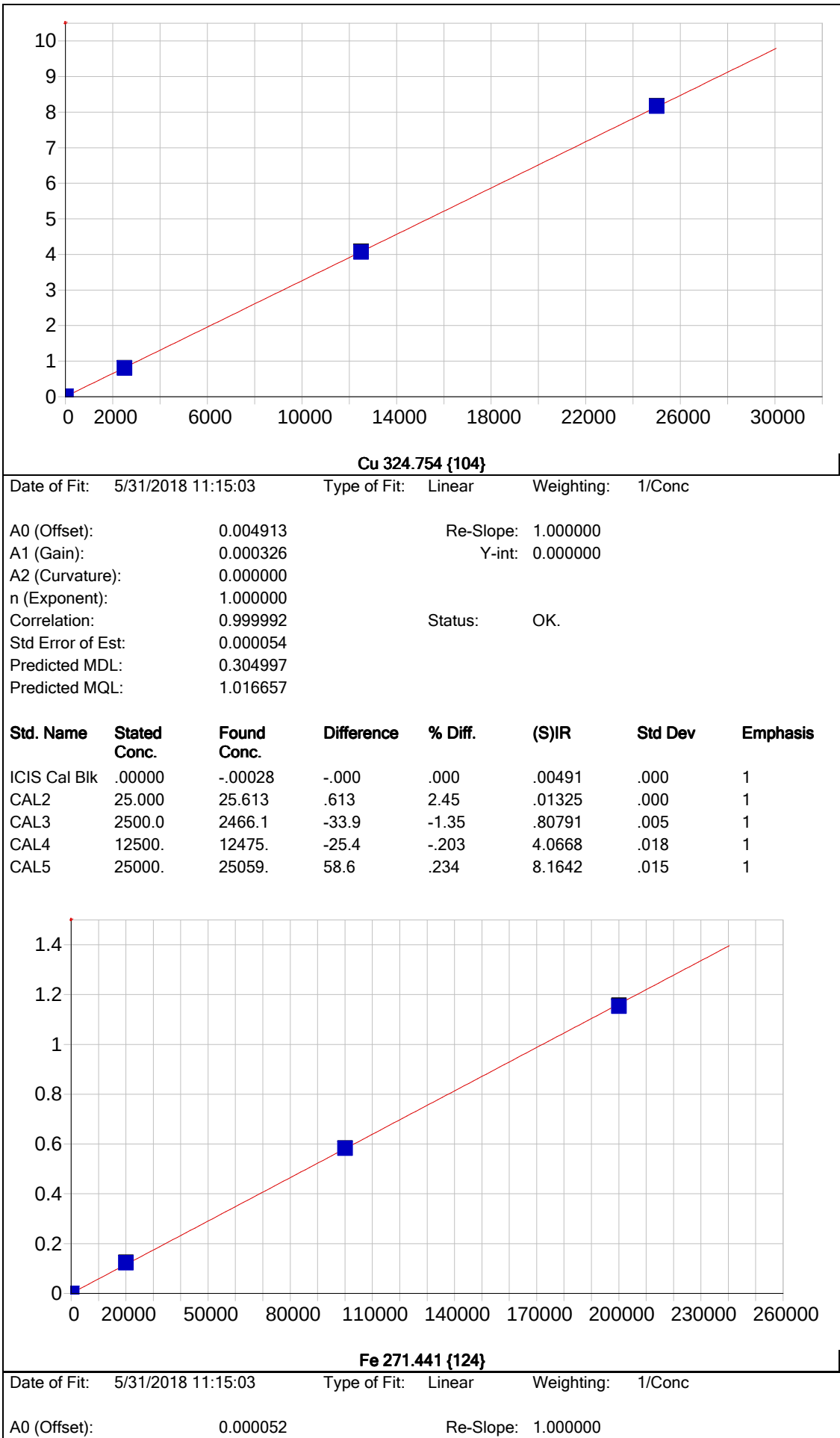


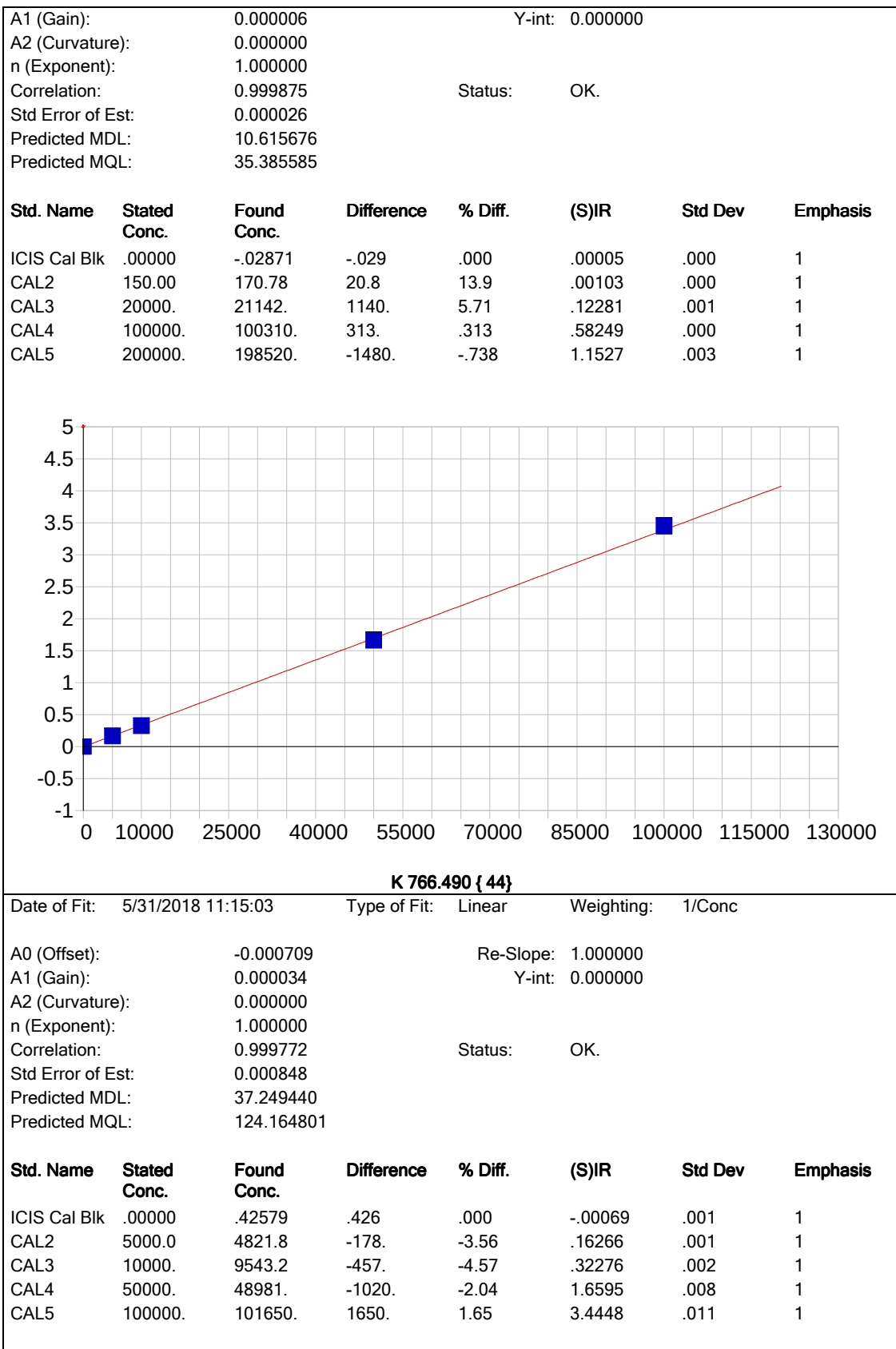
Date of Fit:	5/31/2018 11:15:03	Type of Fit:	Linear	Weighting:	1/Conc		
A0 (Offset):	-0.000122		Re-Slope:	1.000000			
A1 (Gain):	0.000899		Y-int:	0.000000			
A2 (Curvature):	0.000000						
n (Exponent):	1.000000						
Correlation:	0.999790		Status:	OK.			
Std Error of Est:	0.000096						
Predicted MDL:	0.123962						
Predicted MQL:	0.413205						
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00061	-.001	.000	-.00012	.000	1
CAL2	4.0000	4.3418	.342	8.54	.00380	.000	1
CAL3	250.00	267.72	17.7	7.09	.24332	.001	1
CAL4	1250.0	1261.1	11.1	.888	1.1474	.001	1
CAL5	2500.0	2470.8	-29.2	-1.17	2.2489	.009	1

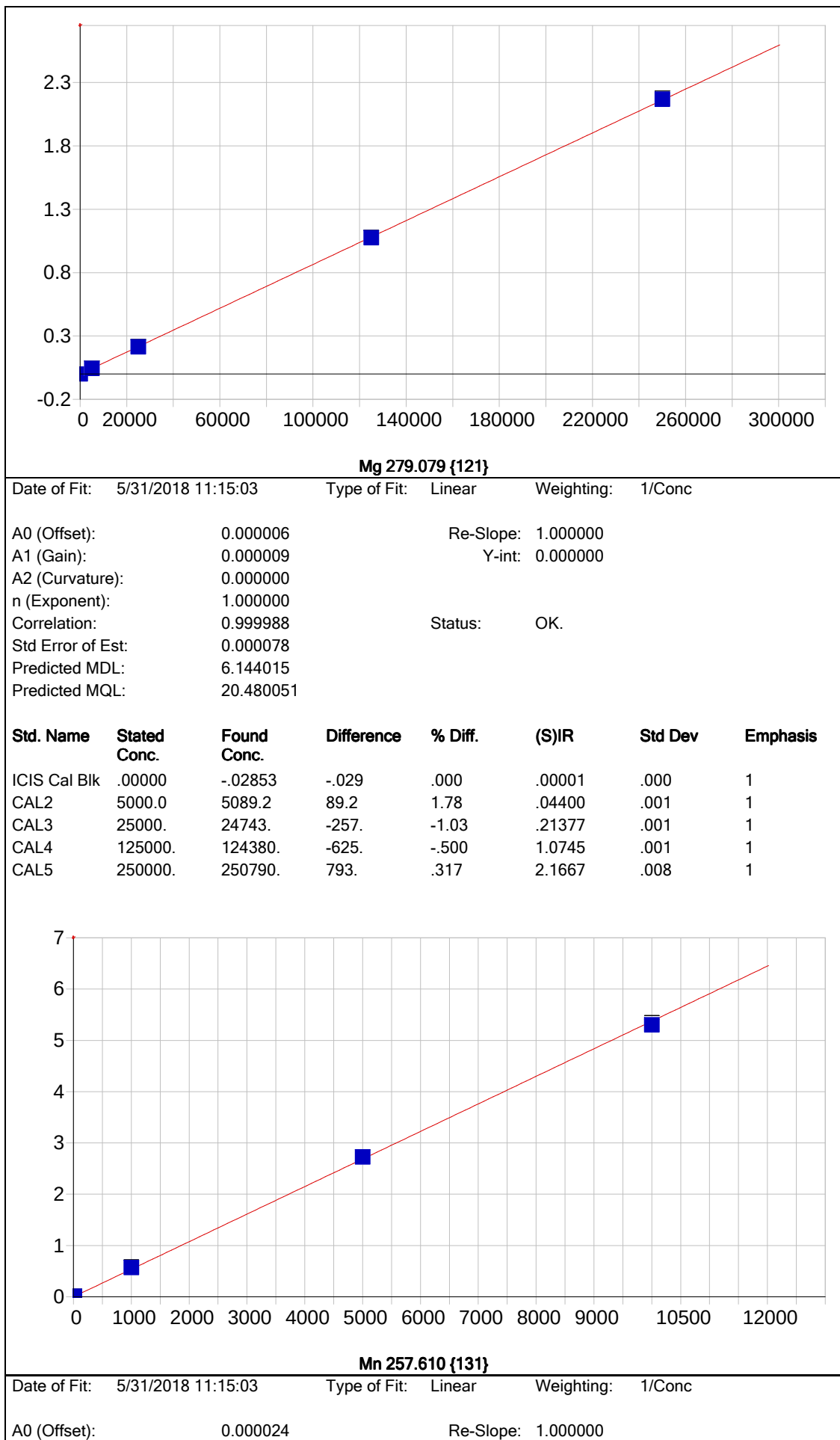


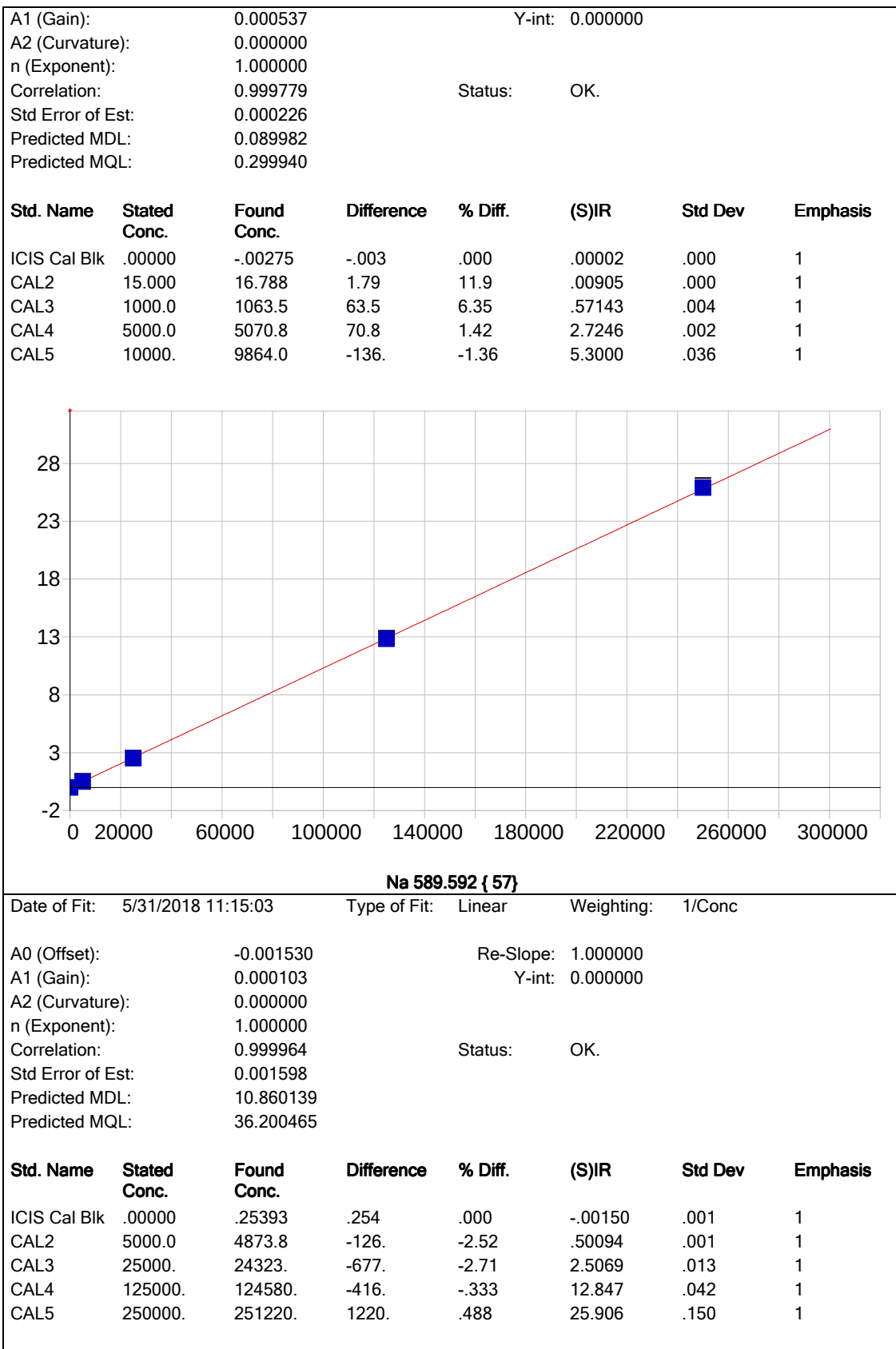
Date of Fit: 5/31/2018 11:15:03		Type of Fit: Linear		Weighting: 1/Conc	
A0 (Offset):	0.000208	Re-Slope:	1.000000		

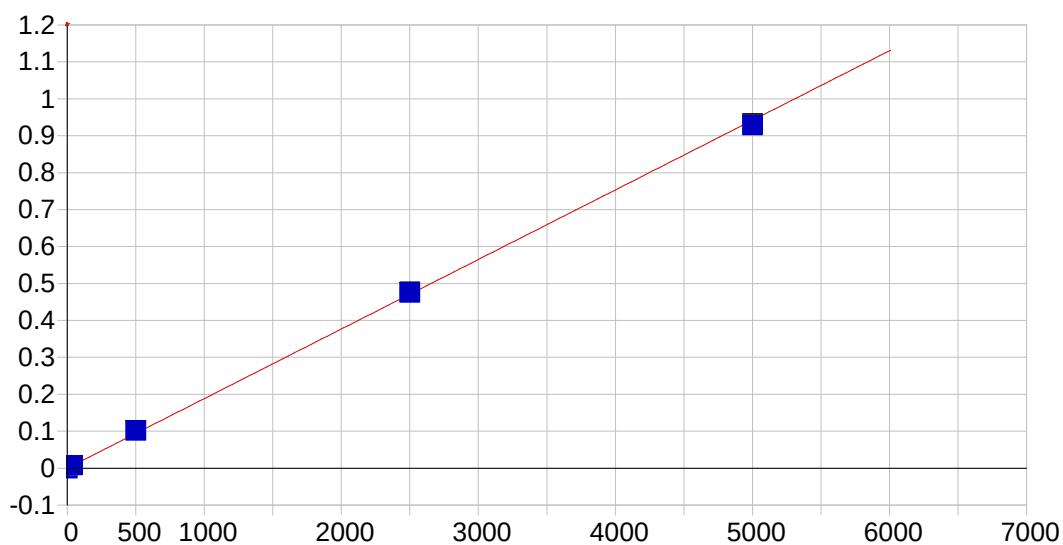










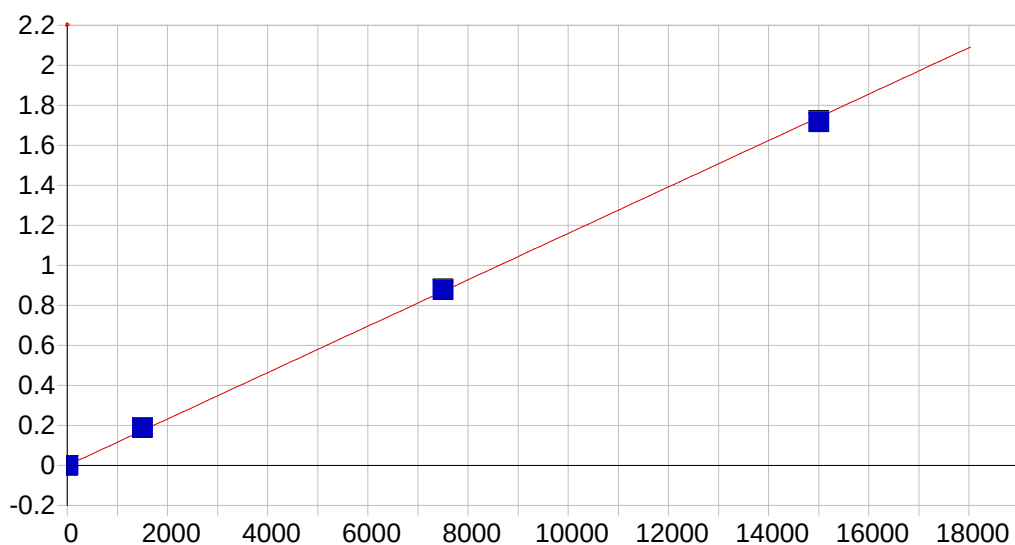


Ni 231.604 {446}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000044 Re-Slope: 1.000000
 A1 (Gain): 0.000188 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999658 Status: OK.
 Std Error of Est: 0.000114
 Predicted MDL: 0.504449
 Predicted MQL: 1.681498

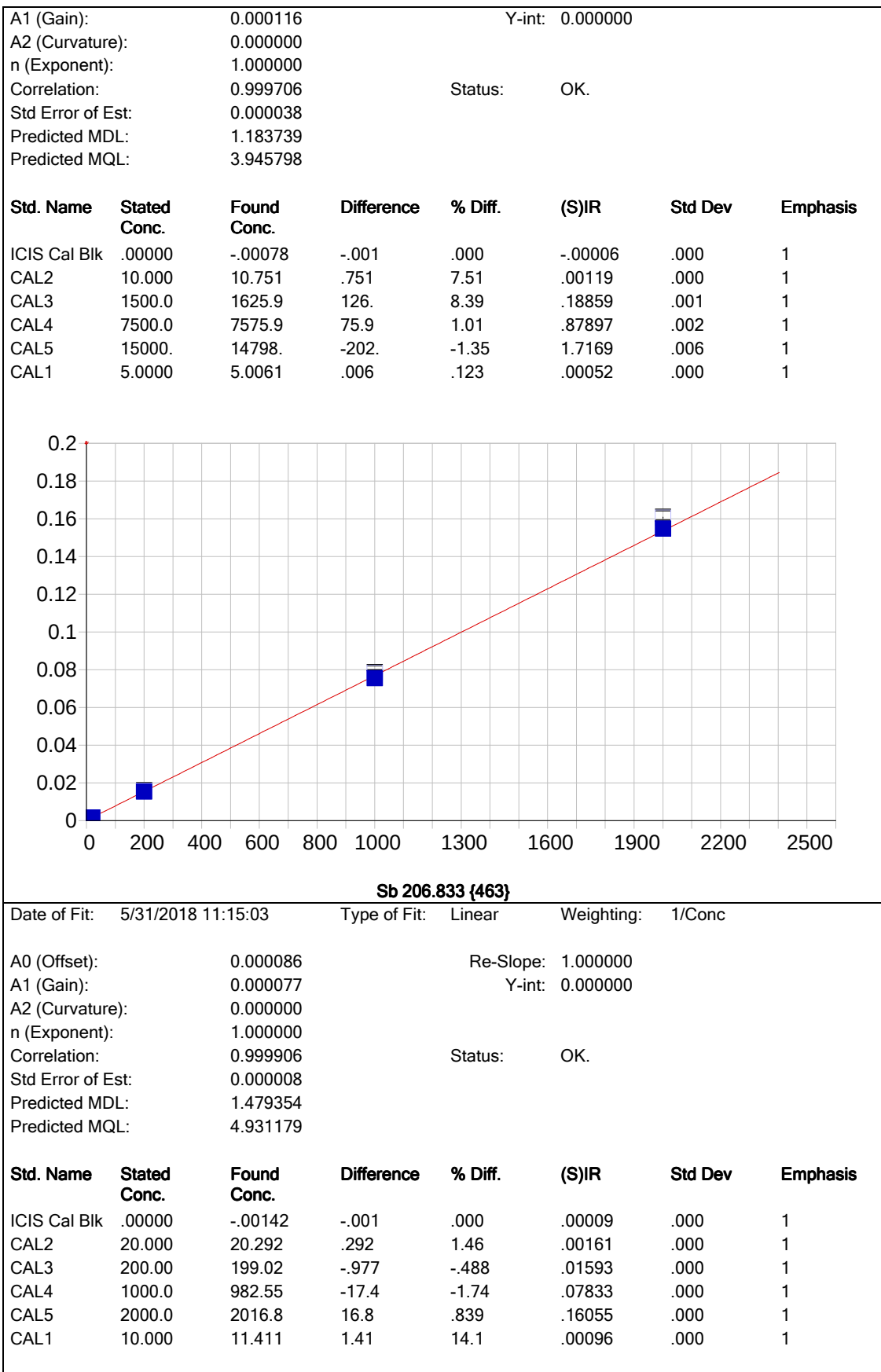
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00875	-.009	.000	-.00005	.000	1
CAL2	40.000	45.604	5.60	14.0	.00855	.000	1
CAL3	500.00	541.68	41.7	8.34	.10206	.000	1
CAL4	2500.0	2524.1	24.1	.963	.47576	.001	1
CAL5	5000.0	4928.7	-71.3	-1.43	.92907	.003	1

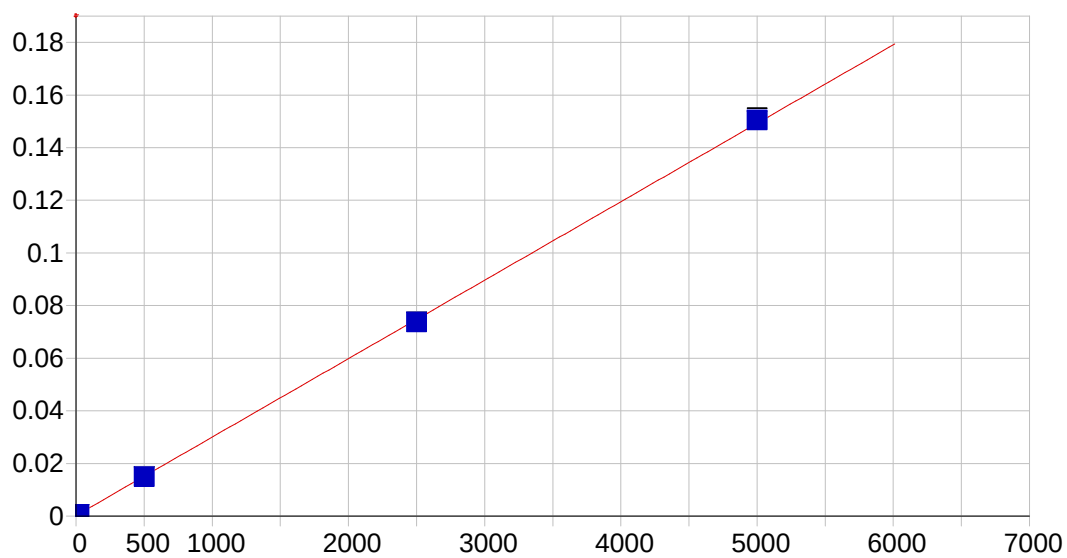


Pb 220.353 {453}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000060 Re-Slope: 1.000000



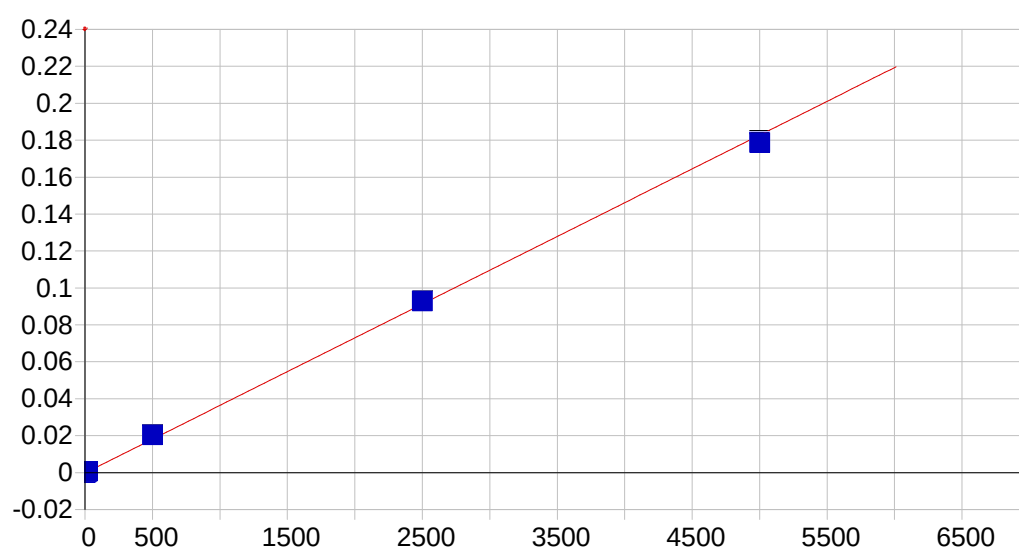


Se 196.090 {472}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

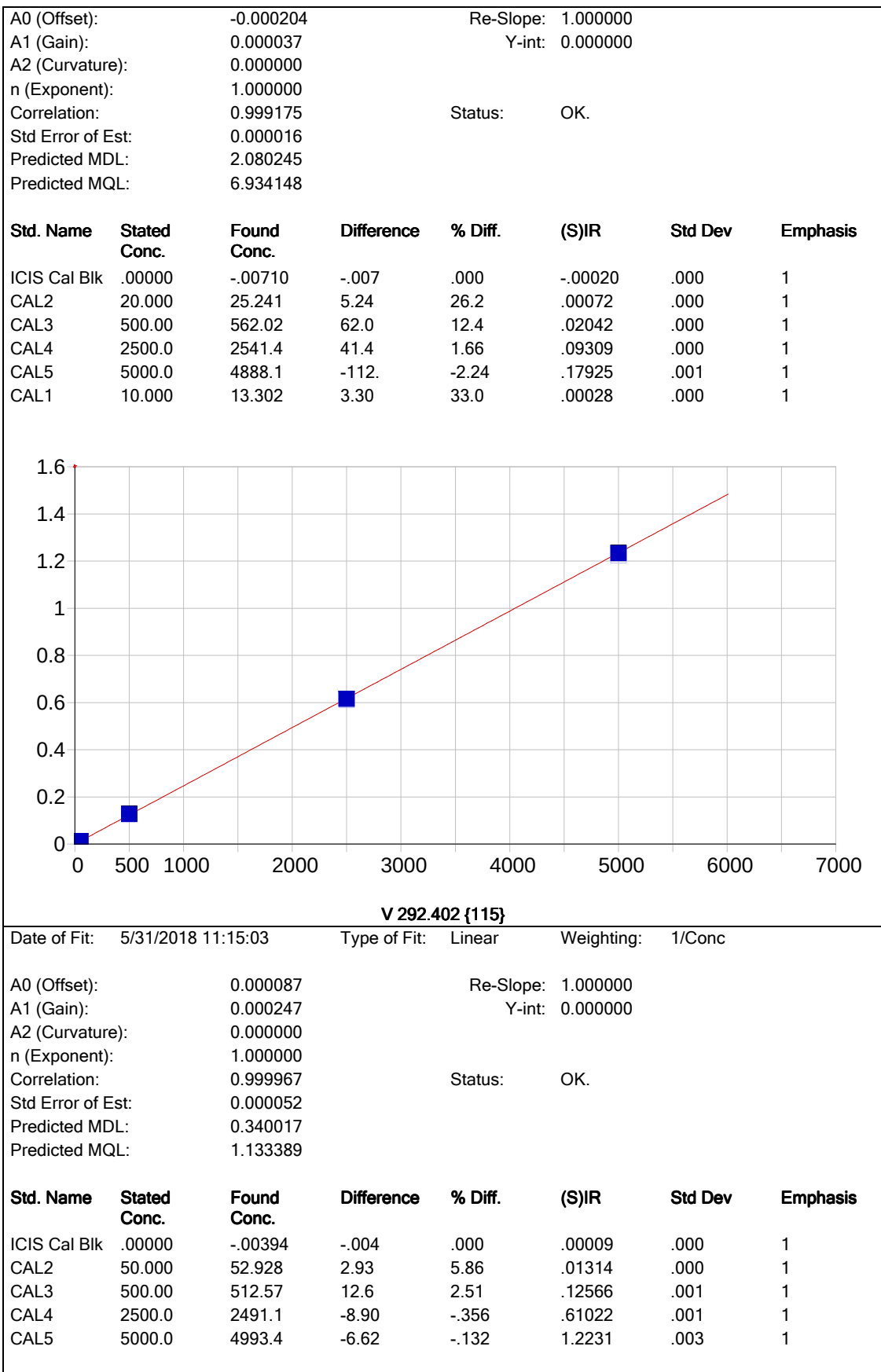
A0 (Offset): 0.000219 Re-Slope: 1.000000
 A1 (Gain): 0.000030 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999911 Status: OK.
 Std Error of Est: 0.000003
 Predicted MDL: 2.521492
 Predicted MQL: 8.404972

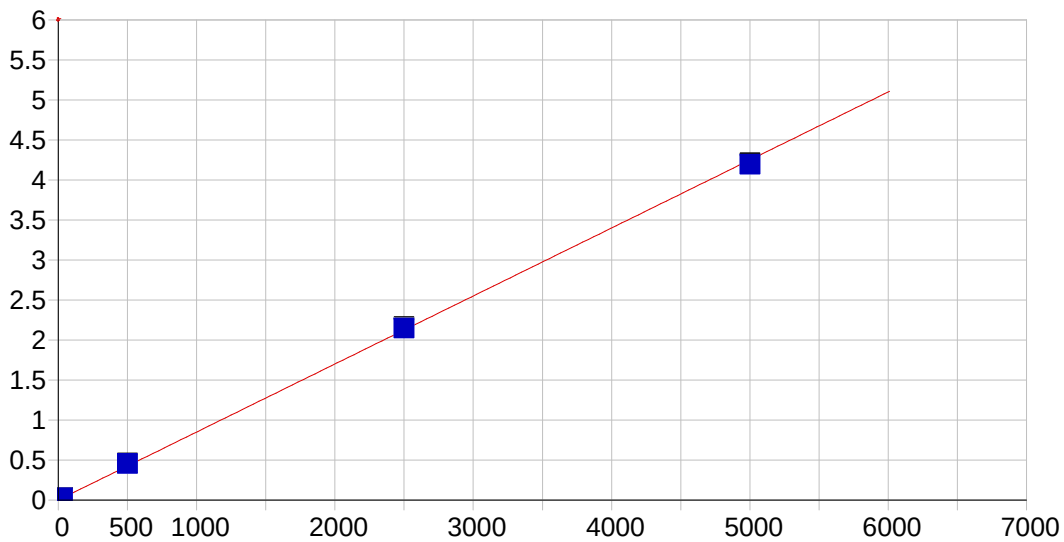
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00129	.001	.000	.00022	.000	1
CAL2	20.000	16.708	-3.29	-16.5	.00072	.000	1
CAL3	500.00	494.93	-5.07	-1.01	.01499	.000	1
CAL4	2500.0	2466.4	-33.6	-1.34	.07384	.000	1
CAL5	5000.0	5042.4	42.4	.847	.15073	.001	1
CAL1	5.0000	4.6133	-.387	-7.73	.00036	.000	1



TI 190.856 {477}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc



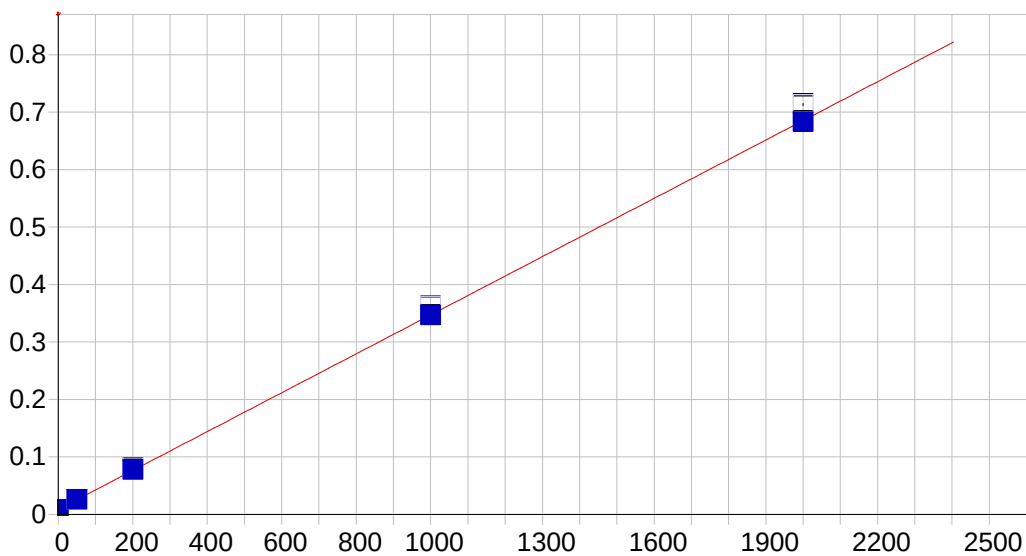


Zn 206.200 {463}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000911 Re-Slope: 1.000000
 A1 (Gain): 0.000850 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999758 Status: OK.
 Std Error of Est: 0.000374
 Predicted MDL: 0.144789
 Predicted MQL: 0.482631

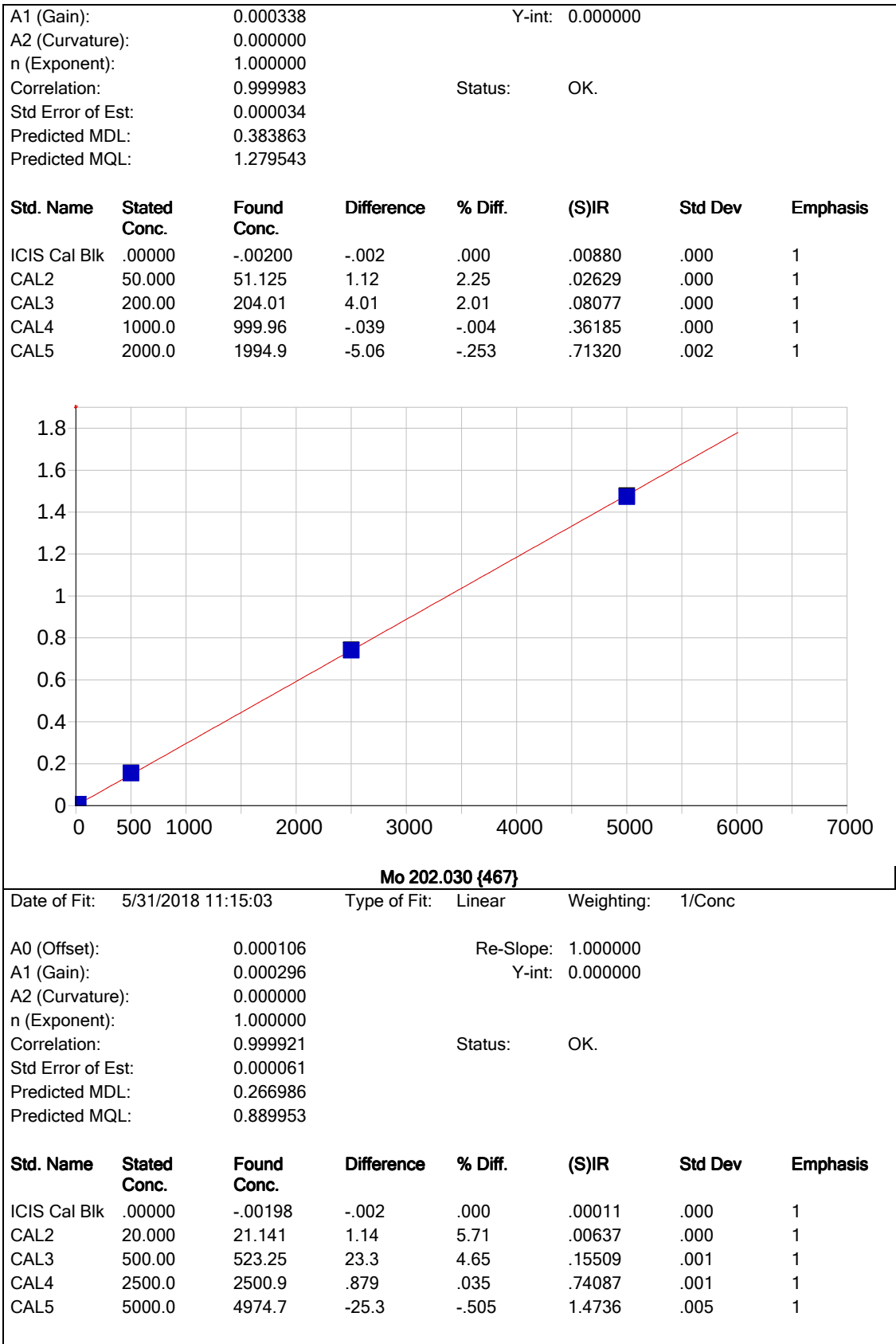
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00511	-.005	.000	.00091	.000	1
CAL2	30.000	33.094	3.09	10.3	.02903	.000	1
CAL3	500.00	534.55	34.6	6.91	.45540	.003	1
CAL4	2500.0	2528.0	28.0	1.12	2.1503	.012	1
CAL5	5000.0	4934.4	-65.6	-1.31	4.1963	.015	1

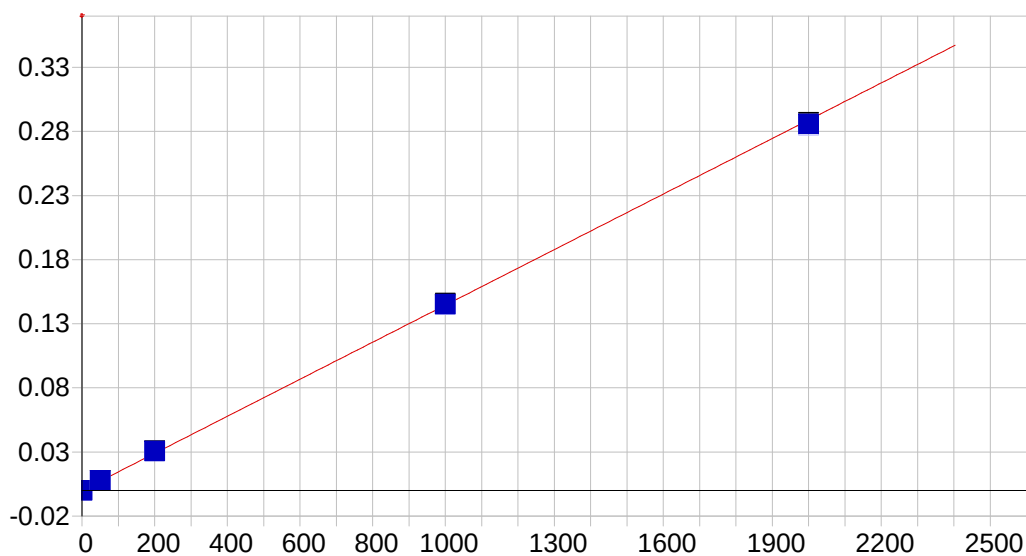


B 208.959 {461}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.008804 Re-Slope: 1.000000



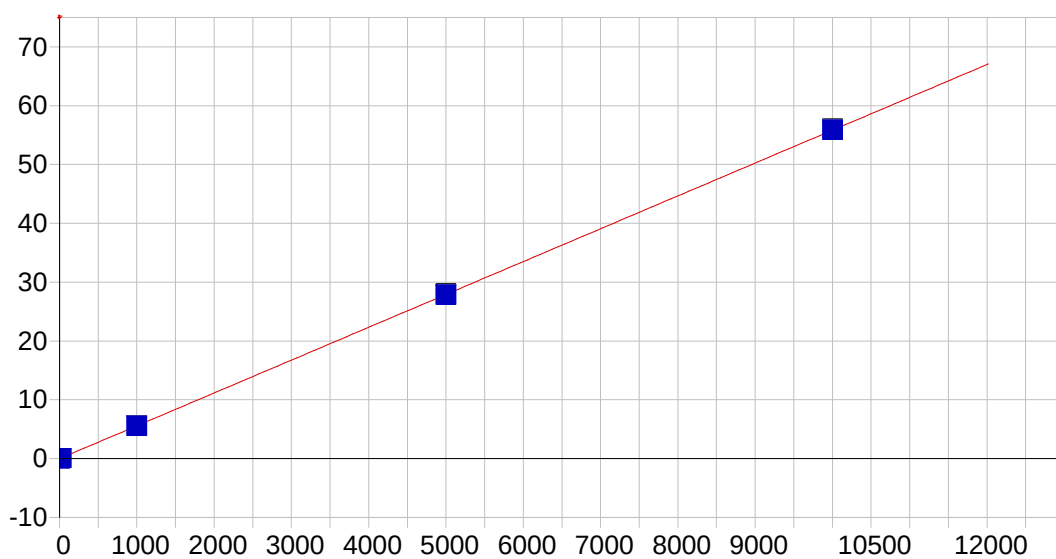


Sn 189.989 {477}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000027 Re-Slope: 1.000000
 A1 (Gain): 0.000144 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999802 Status: OK.
 Std Error of Est: 0.000047
 Predicted MDL: 0.531451
 Predicted MQL: 1.771505

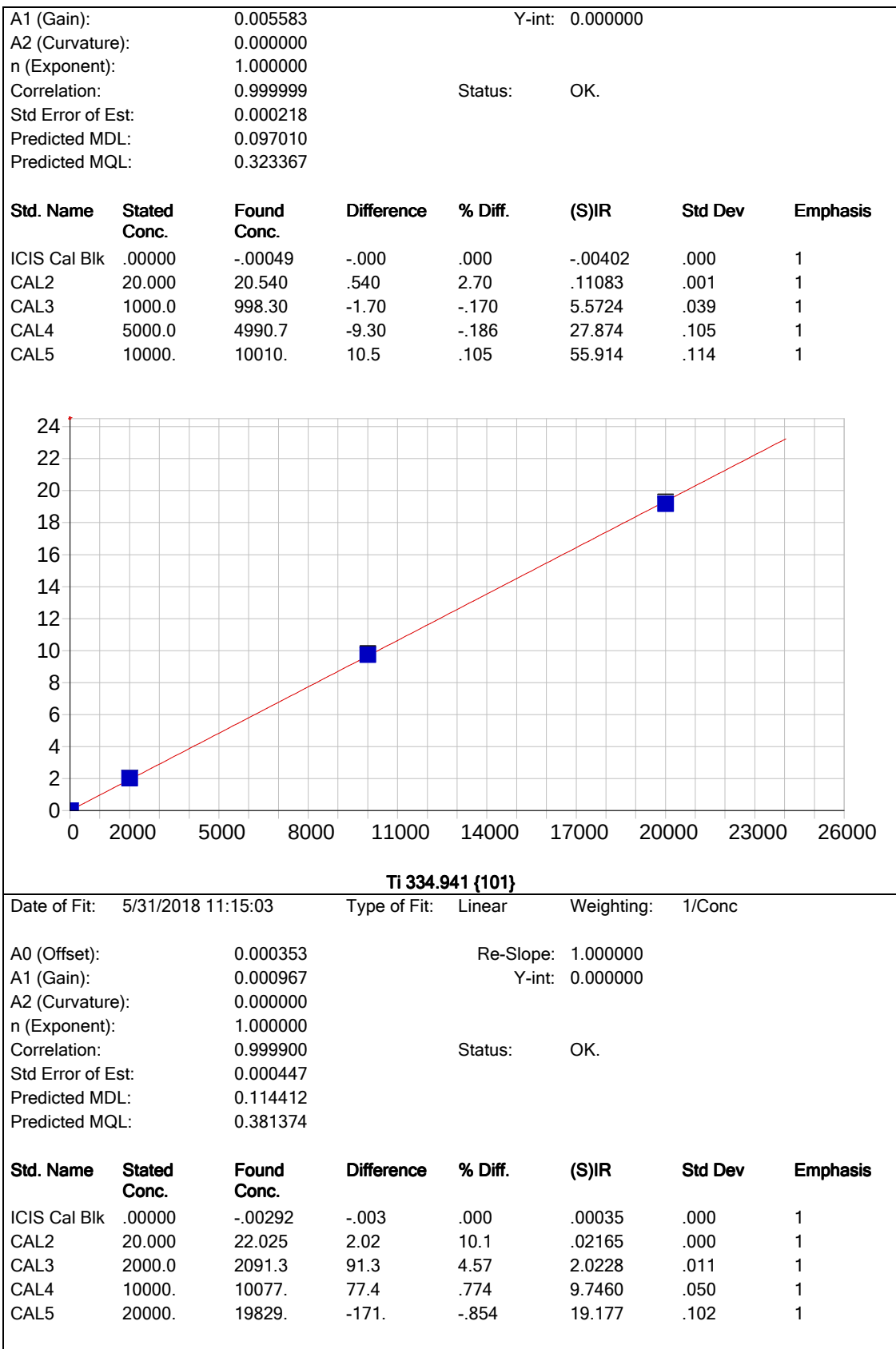
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00609	-.006	.000	.00003	.000	1
CAL2	50.000	53.183	3.18	6.37	.00771	.000	1
CAL3	200.00	212.62	12.6	6.31	.03061	.000	1
CAL4	1000.0	1006.1	6.09	.609	.14473	.001	1
CAL5	2000.0	1978.1	-21.9	-1.10	.28450	.001	1

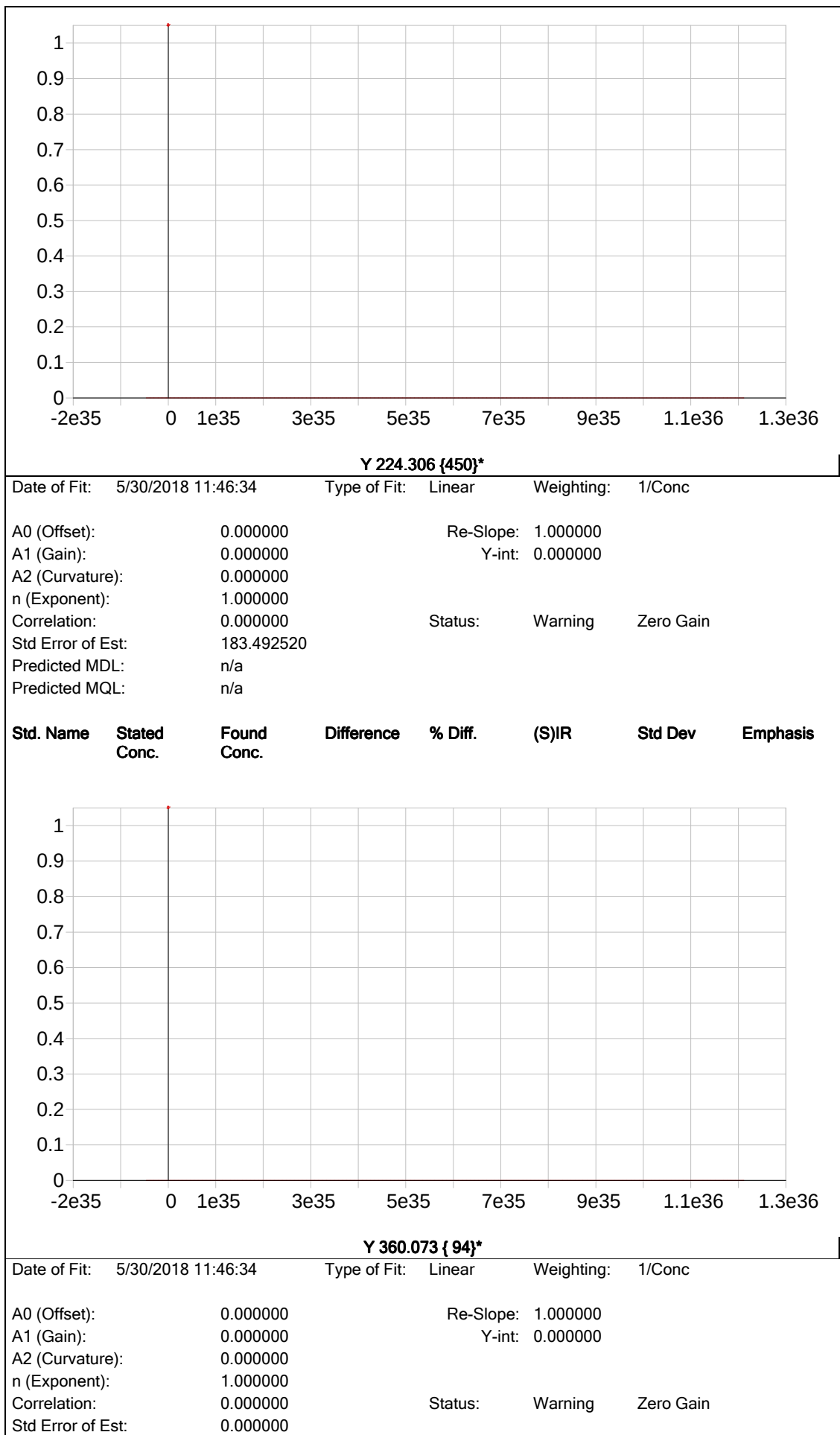


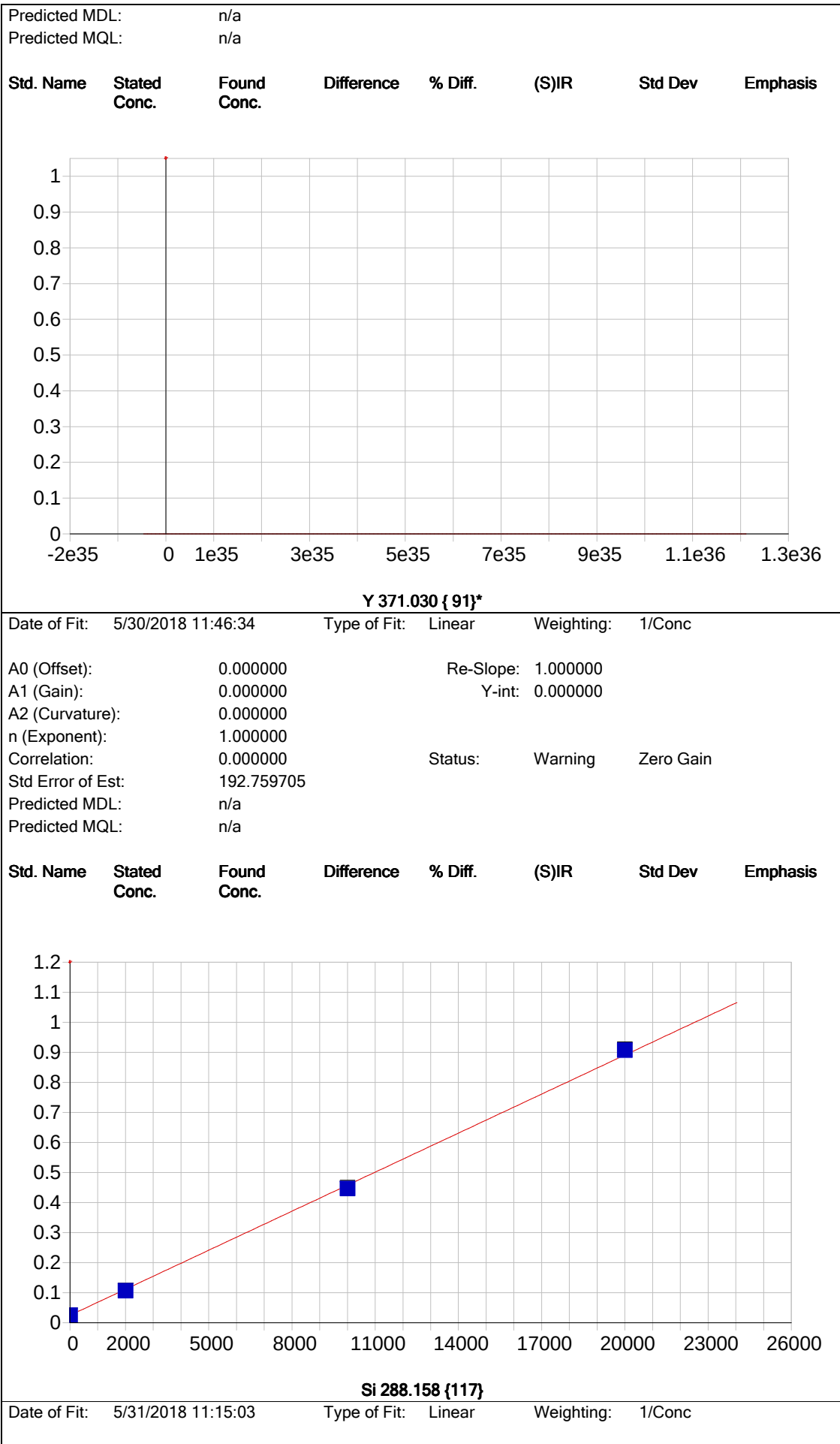
Sr 407.771 {83}

Date of Fit: 5/31/2018 11:15:03 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.004013 Re-Slope: 1.000000







A0 (Offset):	0.024934	Re-Slope:	1.000000
A1 (Gain):	0.000043	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999682	Status:	OK.
Std Error of Est:	0.000390		
Predicted MDL:	10.318873		
Predicted MQL:	34.396243		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.12980	.130	.000	.02494	.000	1
CAL5	20000.	20374.	374.	1.87	.90583	.002	1
CAL3	2000.0	1884.4	-116.	-5.78	.10640	.001	1
CAL4	10000.	9742.0	-258.	-2.58	.44612	.002	1

Sample Name: 460-156722-a-17-c@4 Acquired: 5/31/2018 11:43:24 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15930.	16.87	.2454	54.31	.6065	3475.
Stddev	120.	2.01	.4293	.23	.0663	40.
%RSD	.7527	11.89	174.9	.4299	10.92	1.160
#1	16060.	19.19	.6081	54.58	.6678	3503.
#2	15880.	15.69	-.2286	54.21	.6156	3493.
#3	15840.	15.74	.3566	54.15	.5362	3429.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0134	3.922	25.87	25.39	26020.	654.0
Stddev	.1400	.153	.68	.72	194.	22.6
%RSD	1042.	3.898	2.636	2.822	.7441	3.453
#1	-.1063	4.066	26.65	26.21	26160.	650.7
#2	-.0815	3.762	25.51	25.05	26100.	633.3
#3	.1476	3.937	25.44	24.90	25800.	678.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1634.	509.1	43.10	11.19	123.8	-1.661
Stddev	15.	4.5	6.43	.40	2.1	.663
%RSD	.9255	.8924	14.92	3.576	1.708	39.95
#1	1646.	512.4	50.41	11.58	121.4	-1.472
#2	1639.	511.0	40.54	11.21	124.4	-1.112
#3	1617.	504.0	38.34	10.78	125.5	-2.398

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156722-a-17-c@4 Acquired: 5/31/2018 11:43:24 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0217	1.994	54.30	78.47	5.653	4.007
Stddev	.8425	2.382	.30	.53	.296	1.194
%RSD	3886.	119.4	.5456	.6723	5.237	29.79
#1	.1455	4.719	54.63	78.39	5.867	5.378
#2	.7954	.3106	54.07	77.99	5.315	3.443
#3	-.8758	.9533	54.19	79.04	5.777	3.199

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.004	14.99	392.3	1362.
Stddev	.259	.41	3.7	19.
%RSD	3.696	2.734	.9401	1.384
#1	6.709	15.45	396.4	1361.
#2	7.194	14.84	391.2	1344.
#3	7.109	14.67	389.2	1381.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7127.2	44576.	9331.7
Stddev	43.6	630.	203.0
%RSD	.61138	1.4128	2.1756
#1	7081.5	44109.	9156.1
#2	7131.7	44326.	9284.9
#3	7168.4	45292.	9554.0

Sample Name: 460-156722-a-34-c@4 Acquired: 5/31/2018 11:47:19 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17080.	9.309	.6232	120.3	.7982	8923.
Stddev	54.	1.043	.0774	.5	.0657	74.
%RSD	.3133	11.20	12.43	.3741	8.229	.8342

#1	17140.	10.40	.5652	120.7	.7457	8875.
#2	17030.	8.316	.5932	120.5	.8718	8886.
#3	17080.	9.214	.7111	119.8	.7771	9009.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.997	15.15	188.4	30.11	26150.	473.4
Stddev	.221	.01	.9	.62	162.	23.3
%RSD	7.363	.0651	.4974	2.074	.6177	4.916

#1	2.890	15.14	188.4	30.82	26160.	454.3
#2	3.251	15.15	187.4	29.83	25980.	466.5
#3	2.850	15.16	189.3	29.67	26310.	499.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1936.	2490.	104.8	19.71	185.5	-2.612
Stddev	10.	10.	1.1	.35	1.1	.503
%RSD	.5050	.3853	1.046	1.792	.6076	19.28

#1	1941.	2495.	103.5	19.34	185.7	-2.045
#2	1925.	2478.	105.4	20.05	186.5	-2.783
#3	1942.	2495.	105.4	19.73	184.3	-3.008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156722-a-34-c@4 Acquired: 5/31/2018 11:47:19 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.425	1.794	52.92	234.6	8.552	1.445
Stddev	3.347	.430	.24	1.5	.217	.266
%RSD	234.9	23.97	.4565	.6590	2.532	18.41
#1	-5.214	1.324	52.67	233.1	8.407	1.456
#2	-.1917	2.167	53.15	236.2	8.800	1.704
#3	1.130	1.892	52.93	234.5	8.447	1.173

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.458	43.74	448.3	1328.
Stddev	.332	.30	3.1	55.
%RSD	3.513	.6753	.6936	4.176
#1	9.568	43.99	451.9	1382.
#2	9.722	43.81	446.3	1332.
#3	9.085	43.41	446.7	1271.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7223.9	44793.	9292.7
Stddev	99.4	220.	58.5
%RSD	1.3758	.49178	.62965
#1	7148.9	44539.	9335.1
#2	7186.2	44899.	9317.0
#3	7336.6	44940.	9225.9

Sample Name: 460-156722-a-35-c@4 Acquired: 5/31/2018 11:51:12 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9113.	7.585	-.0568	18.47	.2777	590.8
Stddev	72.	1.521	.3874	.03	.0470	1.4
%RSD	.7847	20.05	682.3	.1390	16.93	.2389
#1	9196.	5.831	-.1908	18.50	.2638	589.2
#2	9079.	8.541	.3799	18.46	.2391	591.3
#3	9065.	8.383	-.3594	18.45	.3301	591.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3395	8.858	18.99	18.71	19930.	209.4
Stddev	.1801	.145	.25	.28	492.	20.1
%RSD	53.05	1.635	1.327	1.486	2.471	9.590
#1	-.3365	8.859	18.81	18.93	20100.	202.5
#2	-.1609	9.002	18.89	18.40	19370.	232.0
#3	-.5210	8.713	19.28	18.81	20310.	193.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	439.4	870.0	17.80	7.310	91.32	-1.400
Stddev	6.4	2.8	3.67	.483	1.04	.621
%RSD	1.459	.3246	20.60	6.603	1.139	44.33
#1	442.5	869.1	14.69	6.773	90.60	-.8099
#2	432.1	867.8	21.84	7.707	90.86	-1.343
#3	443.8	873.2	16.86	7.450	92.52	-2.047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156722-a-35-c@4 Acquired: 5/31/2018 11:51:12 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9630	1.262	50.75	36.88	2.464	1.360
Stddev	1.722	1.081	.98	.30	.349	.194
%RSD	178.8	85.69	1.931	.8081	14.17	14.30
#1	-0.9632	.1310	51.09	36.62	2.380	1.534
#2	2.353	2.285	49.65	37.21	2.847	1.150
#3	1.499	1.369	51.52	36.82	2.164	1.395

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.823	3.001	292.3	1072.
Stddev	.248	.068	1.3	8.
%RSD	4.253	2.273	.4584	.7293
#1	5.544	3.079	292.1	1064.
#2	6.019	2.966	291.0	1079.
#3	5.905	2.957	293.7	1074.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7210.6	45189.	9296.7
Stddev	27.2	230.	109.3
%RSD	.37756	.50829	1.1759
#1	7242.0	45326.	9174.5
#2	7196.2	45318.	9330.3
#3	7193.6	44924.	9385.3

Sample Name: ICV Acquired: 5/31/2018 11:15:07 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121800.	2456.	1213.	10080.	984.9	123400.
Stddev	575.	9.	9.	44.	6.8	1534.
%RSD	.4722	.3470	.7084	.4382	.6907	1.243

#1	121900.	2450.	1205.	10050.	985.5	121700.
#2	122300.	2466.	1222.	10130.	991.4	124700.
#3	121200.	2452.	1213.	10070.	977.8	123900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1251.	2501.	4964.	12300.	99280.	48360.
Stddev	8.	14.	51.	98.	980.	218.
%RSD	.6177	.5401	1.019	.7990	.9868	.4516

#1	1243.	2488.	4911.	12210.	98240.	48360.
#2	1259.	2515.	5012.	12410.	100200.	48580.
#3	1251.	2500.	4969.	12280.	99420.	48150.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123100.	5013.	123200.	2513.	7518.	979.9
Stddev	1143.	46.	656.	10.	43.	2.9
%RSD	.9285	.9241	.5327	.4120	.5765	.3003

#1	121800.	4965.	123100.	2502.	7477.	982.9
#2	124100.	5057.	123900.	2523.	7564.	977.0
#3	123300.	5018.	122600.	2514.	7512.	979.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICV Acquired: 5/31/2018 11:15:07 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2461.	2532.	2462.	2500.	1001.	2491.
Stddev	5.	16.	20.	30.	1.	9.
%RSD	.2081	.6364	.8011	1.208	.0671	.3776

#1	2464.	2523.	2442.	2468.	1001.	2481.
#2	2463.	2550.	2481.	2528.	1002.	2499.
#3	2455.	2522.	2462.	2503.	1000.	2492.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	999.8	4925.	9926.	9742.
Stddev	5.7	29.	60.	83.
%RSD	.5660	.5788	.6006	.8500

#1	993.7	4940.	9892.	9648.
#2	1005.	4943.	9995.	9773.
#3	1001.	4892.	9892.	9804.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6698.9	41510.	9038.1
Stddev	3.5	91.	50.4
%RSD	.05185	.22028	.55815

#1	6702.7	41614.	8981.5
#2	6695.8	41441.	9078.4
#3	6698.2	41476.	9054.4

Sample Name: CCB Acquired: 5/31/2018 12:10:00 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.934	.7249	-.0345	.2605	.0378	10.60
Stddev	7.311	.8598	.4774	.2883	.0615	.28
%RSD	249.2	118.6	1383.	110.7	162.6	2.662
#1	10.96	.5484	.4798	.5701	.0910	10.91
#2	1.182	1.659	-.1198	.2114	-.0295	10.35
#3	-3.342	-.0330	-.4635	-.0001	.0519	10.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0823	-.1283	.3031	.7692	15.48	-12.82
Stddev	.0833	.0772	.3404	.4256	10.10	10.91
%RSD	101.2	60.14	112.3	55.33	65.24	85.14
#1	.1075	-.0425	.6834	1.251	21.84	-.5050
#2	.1502	-.1921	.1987	.6102	20.76	-16.65
#3	-.0107	-.1504	.0272	.4460	3.836	-21.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.687	.2149	12.83	.1950	-.1676	.8657
Stddev	4.532	.2268	11.50	.5201	.7472	.7338
%RSD	122.9	105.5	89.66	266.7	445.8	84.76
#1	.6948	.4745	23.46	.4858	.0252	.0227
#2	-3.399	.1146	14.40	-.4055	.4643	1.213
#3	-8.355	.0556	.6230	.5047	-.9923	1.361

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 12:10:00 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4609	2.533	.1936	-.8950	1.818	.9356
Stddev	3.902	.364	.3854	.0992	.277	.7479
%RSD	846.7	14.36	199.1	11.09	15.21	79.94
#1	1.809	2.268	.5708	-.8558	1.989	1.678
#2	-3.937	2.948	.2095	-.8213	1.966	.9469
#3	3.510	2.385	-.1996	-1.008	1.499	.1821

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4833	.2470	2.608	-9.409
Stddev	.3964	.3053	1.627	15.53
%RSD	82.03	123.6	62.38	165.1
#1	.7300	.5919	4.417	-1.618
#2	.6938	.1376	2.138	.6847
#3	.0260	.0115	1.267	-27.29

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7208.4	44745.	9209.3
Stddev	49.5	161.	175.3
%RSD	.68678	.36073	1.9030
#1	7151.3	44772.	9294.1
#2	7234.3	44891.	9326.1
#3	7239.6	44572.	9007.8

Sample Name: IC5A 5787420 Acquired: 5/31/2018 11:26:46 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	497000.	-2.670	-1.835	-1.242	.0142	486700.
Stddev	5219.	1.869	.440	.081	.0218	6836.
%RSD	1.050	69.99	24.00	6.500	153.5	1.405

#1	491100.	-3.314	-2.283	-1.157	.0275	480300.
#2	501000.	-4.131	-1.402	-1.317	-.0109	486000.
#3	498900.	-.5644	-1.821	-1.251	.0259	493900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8826	-2.964	-.8914	-5.297	190700.	-54.78
Stddev	.4069	.040	.1528	.362	3225.	13.02
%RSD	46.10	1.350	17.14	6.836	1.691	23.77

#1	-.4396	-2.961	-.7150	-5.488	187700.	-50.84
#2	-1.240	-3.006	-.9788	-5.524	190300.	-69.32
#3	-.9685	-2.926	-.9804	-4.879	194100.	-44.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	487900.	.0040	-33.79	-1.195	-4.608	-.0100
Stddev	7791.	.0460	19.05	.359	.719	2.171
%RSD	1.597	1158.	56.39	30.02	15.61	21740.

#1	480500.	.0516	-25.65	-1.544	-3.995	-2.295
#2	487300.	-.0403	-20.16	-.8273	-5.400	.2397
#3	496000.	.0006	-55.56	-1.214	-4.430	2.026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: IC5A 5787420 Acquired: 5/31/2018 11:26:46 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.732	2.660	.3476	-.2699	15.06	1.166
Stddev	4.057	2.012	.3176	.3950	.51	.497
%RSD	85.74	75.64	91.36	146.4	3.375	42.58
#1	-4.875	2.969	.5318	.0358	14.49	.6003
#2	-8.715	.5115	.5301	-.1296	15.23	1.529
#3	-.6047	4.501	-.0191	-.7159	15.46	1.370

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-1.098	-.8646	-3.280	F -274.0
Stddev	.467	.0569	.138	5.6
%RSD	42.47	6.584	4.208	2.053
#1	-.5714	-.8001	-3.152	-280.5
#2	-1.266	-.8861	-3.260	-270.5
#3	-1.458	-.9077	-3.426	-271.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6358.7	39540.	8774.5
Stddev	108.0	553.	71.1
%RSD	1.6978	1.3989	.81010
#1	6440.6	40027.	8844.3
#2	6399.0	39654.	8702.2
#3	6236.4	38938.	8777.0

Sample Name: CCV Acquired: 5/31/2018 12:06:17 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	119100.	2398.	1190.	9937.	963.8	121300.
Stddev	808.	15.	10.	49.	6.6	1029.
%RSD	.6781	.6304	.8106	.4887	.6825	.8483

#1	118300.	2392.	1186.	9890.	956.3	120300.
#2	119800.	2415.	1201.	9987.	968.5	122400.
#3	119300.	2387.	1182.	9935.	966.5	121100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1224.	2474.	4879.	11980.	97280.	47170.
Stddev	4.	12.	45.	114.	839.	292.
%RSD	.3227	.4940	.9130	.9545	.8628	.6183

#1	1221.	2462.	4849.	11920.	96590.	46850.
#2	1229.	2487.	4930.	12110.	98220.	47410.
#3	1223.	2472.	4858.	11910.	97050.	47260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120900.	4978.	120300.	2487.	7412.	956.2
Stddev	1173.	42.	873.	13.	36.	12.1
%RSD	.9700	.8506	.7257	.5280	.4883	1.262

#1	120300.	4946.	119300.	2475.	7377.	949.9
#2	122200.	5026.	121100.	2501.	7449.	970.1
#3	120100.	4963.	120500.	2485.	7412.	948.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 12:06:17 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2403.	2495.	2426.	2478.	962.6	2425.
Stddev	25.	14.	20.	8.	7.6	14.
%RSD	1.033	.5553	.8048	.3131	.7898	.5851
#1	2387.	2484.	2414.	2469.	958.4	2413.
#2	2431.	2510.	2449.	2481.	971.4	2441.
#3	2389.	2490.	2417.	2483.	958.0	2421.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	985.5	4816.	9823.	9381.
Stddev	3.2	35.	108.	114.
%RSD	.3265	.7199	1.102	1.210
#1	982.7	4781.	9748.	9359.
#2	989.0	4851.	9947.	9504.
#3	984.8	4816.	9774.	9280.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6705.0	41589.	8977.6
Stddev	35.0	364.	79.2
%RSD	.52172	.87470	.88244
#1	6718.7	41718.	9057.9
#2	6665.2	41178.	8975.4
#3	6731.0	41871.	8899.5

Sample Name: INT-10B 5488959 Acquired: 5/31/2018 11:39:12 Type: QC

Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.85	-1.987	.2918	.3253	4.874	54.50
Stddev	7.25	.384	.3451	.0936	.037	9.16
%RSD	66.79	19.33	118.3	28.77	.7680	16.81

#1	9.227	-1.574	.2863	.3713	4.898	65.00
#2	4.554	-2.054	-.0506	.3870	4.894	50.38
#3	18.77	-2.334	.6397	.2176	4.831	48.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5311	-1.788	10420.	9838.	24.06	8.264
Stddev	.0498	.611	47.	59.	8.65	23.55
%RSD	9.383	34.15	.4550	.6024	35.94	285.0

#1	.4832	-1.414	10400.	9837.	17.10	-3.669
#2	.5827	-1.457	10390.	9779.	21.34	-6.937
#3	.5274	-2.493	10480.	9898.	33.75	35.40

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-60.81	10240.	23.36	10930.	-3.584	5.159
Stddev	2.81	69.	.89	85.	.178	2.372
%RSD	4.627	.6697	3.817	.7737	4.960	45.97

#1	-60.50	10220.	22.90	10920.	-3.773	7.042
#2	-63.77	10190.	24.39	11020.	-3.420	5.940
#3	-58.17	10320.	22.79	10860.	-3.559	2.495

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: INT-10B 5488959 Acquired: 5/31/2018 11:39:12 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.961	7.484	-10.14	.6423	-10.45	4986.
Stddev	3.639	1.408	.30	.3318	1.30	36.
%RSD	61.05	18.82	3.006	51.66	12.48	.7151
#1	-2.313	6.194	-9.898	.6470	-10.78	4975.
#2	-9.591	8.986	-10.48	.3082	-9.011	5026.
#3	-5.979	7.273	-10.03	.9717	-11.55	4958.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.492	.4382	10120.	F -442.9
Stddev	.858	.2199	41.	5.8
%RSD	11.45	50.18	.4076	1.301
#1	7.997	.6848	10110.	-441.9
#2	6.502	.3671	10090.	-437.6
#3	7.977	.2626	10170.	-449.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7183.4	44343.	9099.4
Stddev	16.7	308.	117.9
%RSD	.23307	.69537	1.2958
#1	7185.5	44024.	9207.6
#2	7165.8	44640.	8973.7
#3	7199.1	44364.	9116.8

Sample Name: ICB Acquired: 5/31/2018 11:18:51 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.045	.0427	-.1559	.4517	.1079	9.304
Stddev	10.50	.4291	.3659	.2618	.0693	8.581
%RSD	1005.	1006.	234.8	57.97	64.26	92.23
#1	5.849	-.4515	-.0050	.7460	.1710	19.10
#2	8.283	.3217	-.5731	.2446	.1190	5.692
#3	-11.00	.2578	.1105	.3643	.0337	3.119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0890	.0818	.3010	.8965	19.25	10.66
Stddev	.0679	.1180	.1215	1.012	12.49	12.34
%RSD	76.35	144.3	40.38	112.9	64.89	115.7
#1	.1576	.1678	.1629	2.063	33.65	20.31
#2	.0875	.1302	.3916	.3699	11.52	14.92
#3	.0218	-.0527	.3485	.2563	12.57	-3.241

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1239	.3984	20.58	.5245	.1528	.5054
Stddev	5.741	.3372	18.22	.0454	1.175	1.359
%RSD	4634.	84.65	88.55	8.655	768.7	269.0
#1	4.051	.7786	41.22	.5758	1.504	1.376
#2	-6.465	.2808	13.77	.5083	-.6290	-1.061
#3	2.786	.1357	6.735	.4895	-.4162	1.201

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICB Acquired: 5/31/2018 11:18:51 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9731	3.389	-.0812	-.7707	3.840	1.620
Stddev	.3462	.573	.1567	.1640	.428	.756
%RSD	35.58	16.91	193.0	21.28	11.15	46.66
#1	.8935	3.908	-.1988	-.6116	4.071	2.416
#2	1.352	2.774	.0967	-.7614	4.103	1.530
#3	.6735	3.486	-.1414	-.9392	3.346	.9129

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3165	.4072	3.266	-3.055
Stddev	.1438	.3492	1.899	12.26
%RSD	45.45	85.76	58.14	401.2
#1	.1572	.8031	5.383	-13.38
#2	.3551	.2754	2.702	10.49
#3	.4370	.1430	1.713	-6.280

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7172.7	44049.	9172.1
Stddev	76.9	573.	39.9
%RSD	1.0723	1.3002	.43467
#1	7130.7	43553.	9141.2
#2	7126.0	43919.	9217.1
#3	7261.5	44676.	9157.9

Sample Name: ICIS Cal Blk Acquired: 5/31/2018 10:51:31 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	-.0002	-.0000	.0000	-.0002	-.0040
Stddev	.0002	.0000	.0001	.0001	.0001	.0000
%RSD	52.20	10.35	2756.	281.9	73.27	.2343

#1	.0004	-.0002	-.0001	.0000	-.0000	-.0040
#2	.0007	-.0002	-.0000	.0001	-.0003	-.0040
#3	.0002	-.0001	.0001	-.0000	-.0002	-.0040

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0001	.0002	.0000	.0049	.0001	-.0007
Stddev	.0000	.0002	.0000	.0001	.0000	.0010
%RSD	17.30	80.44	962.2	1.108	95.17	147.9

#1	-.0001	.0000	-.0000	.0049	.0000	.0002
#2	-.0001	.0003	.0001	.0050	.0001	-.0018
#3	-.0001	.0003	-.0000	.0049	.0001	-.0004

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0000	-.0015	-.0000	-.0001	.0001
Stddev	.0001	.0000	.0008	.0000	.0001	.0001
%RSD	1041.	68.78	54.60	76.08	90.90	96.69

#1	-.0000	.0000	-.0006	-.0001	-.0000	.0002
#2	-.0000	.0000	-.0019	-.0000	-.0000	.0001
#3	.0001	.0000	-.0020	-.0000	-.0001	.0000

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0002	-.0002	.0001	.0009	.0088	.0001
Stddev	.0001	.0001	.0001	.0002	.0000	.0001
%RSD	22.83	44.23	80.30	26.97	.1216	56.37

#1	.0003	-.0003	.0000	.0012	.0088	.0000
#2	.0002	-.0003	.0001	.0008	.0088	.0001
#3	.0002	-.0001	.0002	.0007	.0088	.0002

Sample Name: ICIS Cal Blk Acquired: 5/31/2018 10:51:31 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	-.0040	.0003	.0249
Stddev	.0001	.0004	.0000	.0005
%RSD	265.5	10.18	13.10	1.867

#1	-.0000	-.0041	.0004	.0245
#2	.0000	-.0036	.0003	.0250
#3	.0001	-.0043	.0004	.0254

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7059.8	43774.	9156.2
Stddev	46.8	441.	35.4
%RSD	.66248	1.0072	.38693

#1	7006.8	43304.	9139.4
#2	7095.5	43840.	9132.3
#3	7076.9	44179.	9196.9

Sample Name: CAL5 Acquired: 5/31/2018 11:10:54 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.053	.2538	.5370	11.48	9.301	5.148
Stddev	.028	.0010	.0016	.04	.032	.021
%RSD	.3080	.3773	.2927	.3555	.3487	.4176

#1	9.071	.2534	.5387	11.49	9.335	5.172
#2	9.021	.2549	.5355	11.52	9.270	5.141
#3	9.066	.2531	.5369	11.44	9.299	5.131

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.249	3.694	1.316	8.164	1.153	3.445
Stddev	.009	.013	.004	.015	.003	.011
%RSD	.3919	.3386	.2906	.1871	.2787	.3109

#1	2.250	3.692	1.321	8.180	1.156	3.454
#2	2.257	3.708	1.314	8.150	1.150	3.433
#3	2.239	3.683	1.314	8.163	1.152	3.447

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.167	5.300	25.91	.9291	1.717	.1605
Stddev	.008	.036	.15	.0027	.006	.0004
%RSD	.3799	.6862	.5777	.2922	.3323	.2401

#1	2.176	5.333	26.07	.9288	1.716	.1602
#2	2.162	5.305	25.86	.9319	1.723	.1610
#3	2.162	5.261	25.78	.9265	1.712	.1605

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1507	.1793	1.223	4.196	.7132	1.474
Stddev	.0006	.0006	.003	.015	.0021	.005
%RSD	.3937	.3532	.2298	.3572	.3004	.3164

#1	.1503	.1791	1.226	4.197	.7110	1.471
#2	.1514	.1800	1.220	4.211	.7152	1.479
#3	.1505	.1787	1.224	4.181	.7134	1.471

Sample Name: CAL5 Acquired: 5/31/2018 11:10:54 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2845	55.91	19.18	.9058
Stddev	.0014	.11	.10	.0023
%RSD	.4923	.2036	.5345	.2500

#1	.2850	55.94	19.29	.9049
#2	.2856	56.01	19.09	.9042
#3	.2829	55.79	19.15	.9084

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6375.1	39631.	8778.2
Stddev	7.1	116.	20.1
%RSD	.11126	.29216	.22927

#1	6377.5	39498.	8766.7
#2	6367.2	39687.	8766.5
#3	6380.8	39708.	8801.5

Sample Name: CAL4 Acquired: 5/31/2018 11:07:11 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.420	.1237	.2605	5.908	4.646	2.563
Stddev	.015	.0004	.0011	.016	.018	.004
%RSD	.3348	.2886	.4124	.2726	.3768	.1604

#1	4.437	.1238	.2612	5.895	4.667	2.559
#2	4.411	.1241	.2593	5.904	4.638	2.567
#3	4.411	.1234	.2610	5.926	4.635	2.563

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.147	1.878	.6651	4.067	.5825	1.659
Stddev	.001	.003	.0008	.018	.0005	.008
%RSD	.0692	.1625	.1140	.4485	.0801	.5021

#1	1.147	1.876	.6642	4.080	.5822	1.669
#2	1.147	1.877	.6657	4.046	.5830	1.655
#3	1.148	1.882	.6652	4.074	.5823	1.654

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.075	2.725	12.85	.4758	.8790	.0783
Stddev	.001	.002	.04	.0007	.0019	.0004
%RSD	.0843	.0657	.3257	.1575	.2177	.4556

#1	1.074	2.723	12.89	.4754	.8775	.0787
#2	1.075	2.725	12.83	.4753	.8783	.0782
#3	1.075	2.726	12.82	.4766	.8811	.0780

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0738	.0931	.6102	2.150	.3618	.7409
Stddev	.0001	.0002	.0005	.012	.0005	.0010
%RSD	.0977	.1659	.0878	.5495	.1332	.1417

#1	.0739	.0932	.6098	2.141	.3622	.7398
#2	.0738	.0929	.6100	2.147	.3620	.7410
#3	.0738	.0931	.6108	2.163	.3613	.7419

Sample Name: CAL4 Acquired: 5/31/2018 11:07:11 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1447	27.87	9.746	.4461
Stddev	.0006	.11	.050	.0018
%RSD	.4262	.3782	.5115	.4049

#1	.1443	28.00	9.794	.4470
#2	.1444	27.82	9.749	.4473
#3	.1454	27.81	9.695	.4440

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6696.5	41306.	8998.9
Stddev	23.4	77.	19.1
%RSD	.35003	.18564	.21234

#1	6683.7	41268.	8981.1
#2	6682.3	41256.	9019.1
#3	6723.6	41394.	8996.7

Sample Name: CAL2 Acquired: 5/31/2018 10:59:33 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0077	.0006	.0020	.1298	.0096	.1020
Stddev	.0002	.0000	.0001	.0002	.0004	.0009
%RSD	2.392	4.509	3.548	.1694	4.578	.8817

#1	.0075	.0006	.0020	.1297	.0100	.1027
#2	.0076	.0007	.0020	.1297	.0096	.1023
#3	.0079	.0006	.0021	.1301	.0091	.1010

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0038	.0412	.0015	.0132	.0010	.1627
Stddev	.0001	.0002	.0000	.0002	.0000	.0012
%RSD	2.355	.5106	3.348	1.774	2.064	.7095

#1	.0038	.0412	.0015	.0134	.0010	.1637
#2	.0037	.0414	.0015	.0134	.0010	.1614
#3	.0039	.0410	.0014	.0130	.0010	.1628

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0440	.0090	.5009	.0085	.0012	.0016
Stddev	.0007	.0001	.0013	.0000	.0001	.0001
%RSD	1.602	1.501	.2667	.3352	7.229	6.544

#1	.0444	.0091	.5020	.0086	.0012	.0016
#2	.0444	.0091	.4994	.0085	.0013	.0017
#3	.0432	.0089	.5014	.0086	.0011	.0015

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0007	.0007	.0131	.0290	.0263	.0064
Stddev	.0001	.0001	.0002	.0001	.0000	.0001
%RSD	9.101	7.361	1.158	.4531	.1718	2.030

#1	.0007	.0007	.0132	.0291	.0263	.0065
#2	.0007	.0008	.0132	.0291	.0263	.0064
#3	.0008	.0007	.0130	.0289	.0263	.0062

Sample Name: CAL2 Acquired: 5/31/2018 10:59:33 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	.0077	.1108	.0217
Stddev	.0001	.0015	.0004
%RSD	1.452	1.326	1.706

#1	.0077	.1111	.0219
#2	.0078	.1092	.0219
#3	.0076	.1121	.0212

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7056.8	43652.	9094.7
Stddev	10.6	393.	97.2
%RSD	.15056	.90089	1.0689

#1	7048.0	43341.	8993.4
#2	7053.9	43520.	9103.3
#3	7068.6	44094.	9187.3

Sample Name: ICVL Acquired: 5/31/2018 11:22:51 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	164.5	13.02	8.754	187.8	1.641	4367.
Stddev	16.8	.17	.097	1.3	.048	69.
%RSD	10.23	1.309	1.110	.6774	2.912	1.586
#1	146.3	12.89	8.701	187.0	1.686	4288.
#2	179.6	12.95	8.696	187.1	1.646	4418.
#3	167.5	13.21	8.866	189.3	1.591	4395.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.745	46.56	9.452	21.71	157.7	4033.
Stddev	.068	.47	.142	.33	2.6	62.
%RSD	1.811	1.019	1.503	1.508	1.629	1.536
#1	3.799	46.78	9.452	21.39	155.2	3962.
#2	3.669	46.02	9.594	21.69	157.6	4069.
#3	3.767	46.89	9.310	22.05	160.3	4069.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4331.	14.33	4084.	38.35	9.061	17.62
Stddev	108.	.30	41.	1.08	.429	1.25
%RSD	2.499	2.113	1.003	2.817	4.730	7.101
#1	4220.	14.02	4044.	38.04	8.623	18.98
#2	4437.	14.62	4126.	37.46	9.479	16.52
#3	4337.	14.35	4082.	39.55	9.081	17.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: ICVL Acquired: 5/31/2018 11:22:51 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.26	23.23	45.33	27.63	43.99	18.42
Stddev	1.91	1.89	.98	.38	.39	.19
%RSD	11.73	8.149	2.160	1.390	.8769	1.032
#1	14.13	25.39	44.27	27.42	44.36	18.57
#2	17.82	22.40	46.21	27.40	43.59	18.21
#3	16.82	21.88	45.50	28.07	44.02	18.48

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.31	17.16	19.48	F -26.30
Stddev	.43	.13	.29	6.71
%RSD	.9438	.7365	1.489	25.51
#1	45.75	17.01	19.30	-18.78
#2	44.90	17.24	19.82	-31.67
#3	45.27	17.22	19.33	-28.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7156.5	44057.	9188.4
Stddev	56.4	461.	92.6
%RSD	.78862	1.0464	1.0080
#1	7180.8	44566.	9282.3
#2	7196.7	43668.	9097.1
#3	7092.0	43937.	9185.7

Sample Name: 460-157010-a-9-b du Acquired: 5/31/2018 12:02:27 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30270.	640.4	-1.377	248.4	4.084	4262.
Stddev	226.	3.7	.231	1.0	.120	28.
%RSD	.7477	.5776	16.79	.3842	2.937	.6639
#1	30020.	642.8	-1.504	248.1	4.085	4247.
#2	30320.	642.2	-1.517	247.7	4.203	4245.
#3	30460.	636.1	-1.110	249.5	3.963	4295.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.095	59.79	95.71	115.8	127200.	3037.
Stddev	.146	.43	.67	.7	513.	47.
%RSD	6.948	.7150	.7006	.5910	.4035	1.546
#1	-2.106	59.87	95.68	115.0	126600.	2992.
#2	-1.944	60.17	95.05	116.2	127300.	3033.
#3	-2.235	59.32	96.39	116.2	127600.	3086.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9015.	918.5	301.0	189.4	91.63	-3.250
Stddev	39.	2.7	4.4	.4	.45	1.227
%RSD	.4291	.2988	1.471	.1911	.4943	37.75
#1	8971.	915.4	296.6	189.5	91.61	-4.411
#2	9031.	919.6	305.4	189.7	91.19	-3.373
#3	9043.	920.6	301.0	189.0	92.09	-1.966

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-9-b du Acquired: 5/31/2018 12:02:27 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.990	-1.117	105.9	346.4	24.91	2.967
Stddev	1.547	1.034	.4	2.4	.09	.064
%RSD	51.75	92.62	.4083	.6821	.3648	2.144
#1	-3.677	-2.235	105.5	348.1	24.96	3.028
#2	-1.218	-.9191	105.8	343.7	24.96	2.971
#3	-4.074	-.1955	106.4	347.4	24.80	2.901

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.349	57.06	883.4	720.2
Stddev	.224	.28	2.1	2.3
%RSD	2.683	.4840	.2406	.3216
#1	8.456	56.76	881.1	717.7
#2	8.499	57.12	885.3	720.6
#3	8.091	57.30	883.7	722.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7298.9	45674.	9650.8
Stddev	43.2	288.	46.5
%RSD	.59214	.63032	.48226
#1	7249.2	45413.	9670.0
#2	7320.2	45626.	9684.7
#3	7327.3	45983.	9597.8

Sample Name: 460-157010-a-9-a.ms Acquired: 5/31/2018 11:58:45 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39780.	1275.	22.33	1423.	28.30	14750.
Stddev	468.	9.	.05	5.	.46	46.
%RSD	1.178	.7256	.2338	.3324	1.619	.3121

#1	40320.	1267.	22.32	1419.	28.83	14770.
#2	39510.	1285.	22.29	1428.	28.08	14780.
#3	39500.	1273.	22.39	1422.	27.99	14690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.51	313.9	184.4	327.7	105200.	11910.
Stddev	.37	3.0	.4	2.4	226.	150.
%RSD	1.522	.9539	.2133	.7388	.2147	1.262

#1	24.41	311.6	184.6	330.5	105400.	12080.
#2	24.92	317.3	184.6	326.7	105100.	11810.
#3	24.19	312.8	183.9	325.9	105000.	11840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15930.	991.8	10120.	592.4	436.2	119.4
Stddev	9.	2.1	136.	6.7	3.8	1.6
%RSD	.0562	.2158	1.348	1.125	.8616	1.317

#1	15940.	994.2	10280.	588.1	435.8	117.7
#2	15930.	990.7	10040.	600.0	440.1	119.5
#3	15930.	990.3	10040.	589.0	432.6	120.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-9-a.ms Acquired: 5/31/2018 11:58:45 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	943.1	1075.	353.4	586.9	262.9	251.9
Stddev	3.7	5.	.8	3.2	.2	.1
%RSD	.3923	.4747	.2345	.5441	.0612	.0372

#1	940.4	1070.	354.3	583.7	263.0	251.9
#2	947.3	1078.	353.1	590.0	263.1	251.8
#3	941.7	1079.	352.6	587.0	262.8	252.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	254.0	307.8	1062.	1042.
Stddev	.0	3.1	5.	17.
%RSD	.0171	.9943	.4438	1.646

#1	254.1	311.3	1068.	1056.
#2	254.0	305.7	1060.	1048.
#3	254.0	306.4	1059.	1023.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7162.8	44873.	9498.5
Stddev	18.8	108.	139.8
%RSD	.26312	.24159	1.4718

#1	7183.3	44761.	9337.2
#2	7146.2	44879.	9573.6
#3	7159.0	44978.	9584.8

Sample Name: INT-10A 5642381 Acquired: 5/31/2018 11:35:07 Type: QC

Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41.32	5.132	-3.190	3.475	1.577	53.42
Stddev	33.43	.897	.340	.093	.025	16.16
%RSD	80.91	17.48	10.64	2.668	1.592	30.24

#1	79.87	4.465	-2.998	3.382	1.565	71.13
#2	20.41	4.779	-2.990	3.568	1.560	39.48
#3	23.67	6.152	-3.582	3.476	1.606	49.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2169	10880.	.3837	4.665	-71.11	-4.422
Stddev	.0301	120.	.3061	.446	26.88	4.194
%RSD	13.90	1.106	79.77	9.562	37.79	94.84

#1	-.2511	10760.	.5226	4.215	-48.25	-.5366
#2	-.2051	10890.	.0328	4.674	-100.7	-8.869
#3	-.1944	11000.	.5957	5.107	-64.37	-3.862

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.57	.0085	32.33	-4.562	-5.236	1.983
Stddev	23.23	.1037	6.98	.320	.524	1.037
%RSD	159.4	1223.	21.61	7.020	10.01	52.28

#1	38.28	-.0837	28.28	-4.371	-4.686	3.174
#2	-8.153	-.0116	28.30	-4.384	-5.292	1.496
#3	13.59	.1208	40.39	-4.932	-5.729	1.280

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: INT-10A 5642381 Acquired: 5/31/2018 11:35:07 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.674	7.123	5048.	1.115	-18.26	-1.578
Stddev	.824	.979	75.	.098	.48	.260
%RSD	9.503	13.75	1.483	8.741	2.638	16.49
#1	-8.052	8.235	4975.	1.085	-18.80	-1.562
#2	-8.361	6.388	5042.	1.036	-17.87	-1.326
#3	-9.609	6.748	5125.	1.224	-18.11	-1.846

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10370.	9956.	.5240	9059.
Stddev	96.	571.	.1716	179.
%RSD	.9220	5.736	32.76	1.975
#1	10270.	9525.	.6824	8861.
#2	10370.	9739.	.5478	9109.
#3	10470.	10600.	.3416	9208.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7152.1	44156.	9031.7
Stddev	77.6	556.	355.3
%RSD	1.0853	1.2601	3.9340
#1	7227.9	44652.	9260.8
#2	7155.8	44263.	9212.0
#3	7072.8	43555.	8622.4

Sample Name: CCVL Acquired: 5/31/2018 12:13:59 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	167.5	12.61	8.469	187.9	1.757	4408.
Stddev	3.4	.57	.395	2.0	.030	74.
%RSD	2.052	4.544	4.669	1.079	1.699	1.668

#1	167.7	11.98	8.696	189.6	1.791	4478.
#2	164.0	13.10	8.699	188.4	1.736	4415.
#3	170.8	12.76	8.013	185.6	1.745	4331.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.770	46.74	9.045	21.98	163.4	4055.
Stddev	.053	.28	.185	.50	7.8	10.
%RSD	1.405	.5886	2.048	2.280	4.770	.2543

#1	3.809	46.93	8.848	22.47	172.3	4043.
#2	3.792	46.87	9.071	22.01	157.7	4059.
#3	3.710	46.43	9.216	21.47	160.3	4063.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4344.	14.44	4117.	38.68	9.392	18.31
Stddev	89.	.18	36.	.42	1.817	1.42
%RSD	2.043	1.244	.8853	1.096	19.34	7.757

#1	4433.	14.59	4148.	38.94	11.27	19.84
#2	4343.	14.47	4126.	38.92	9.263	18.07
#3	4255.	14.24	4077.	38.19	7.644	17.02

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 12:13:59 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.16	21.98	45.28	27.77	43.45	18.03
Stddev	2.35	.29	.94	.25	.70	.17
%RSD	12.94	1.301	2.067	.9043	1.606	.9256
#1	19.45	21.97	46.22	28.03	43.48	17.91
#2	19.58	22.27	45.28	27.77	42.74	18.22
#3	15.45	21.70	44.35	27.52	44.13	17.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.06	17.38	19.38	F -15.77
Stddev	.86	.06	.33	13.85
%RSD	1.915	.3170	1.679	87.87
#1	46.05	17.40	19.70	-20.29
#2	44.52	17.42	19.39	-26.79
#3	44.60	17.32	19.05	-.2159

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7116.8	43927.	9211.3
Stddev	14.1	401.	155.4
%RSD	.19847	.91377	1.6870
#1	7102.5	43578.	9099.8
#2	7130.8	43837.	9145.2
#3	7117.2	44366.	9388.8

Sample Name: ICSAB 5674412 Acquired: 5/31/2018 11:31:04 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	498000.	92.67	100.4	102.8	101.2	488200.
Stddev	3963.	1.22	.1	.3	1.0	5296.
%RSD	.7957	1.314	.1066	.2905	1.003	1.085

#1	502200.	91.60	100.5	102.9	102.3	491300.
#2	497500.	93.99	100.4	102.9	101.1	482100.
#3	494300.	92.42	100.3	102.4	100.2	491300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.35	94.76	99.20	101.8	191200.	10140.
Stddev	.50	.29	.25	.8	1671.	121.
%RSD	.5275	.3049	.2470	.8335	.8735	1.189

#1	95.58	94.80	99.38	102.8	192400.	10270.
#2	95.70	95.03	98.92	101.3	189300.	10110.
#3	94.77	94.45	99.28	101.4	192100.	10030.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	484700.	102.0	10300.	95.68	92.05	101.8
Stddev	3554.	.7	93.	.91	2.12	2.9
%RSD	.7332	.6922	.9047	.9527	2.304	2.882

#1	487400.	102.5	10390.	95.43	89.64	105.1
#2	480700.	101.2	10300.	96.69	93.64	100.3
#3	486100.	102.4	10210.	94.92	92.86	99.84

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: ICSAB 5674412 Acquired: 5/31/2018 11:31:04 Type: QC
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91.68	91.95	101.6	89.42	100.4	100.9
Stddev	2.86	6.35	1.1	.66	1.0	.5
%RSD	3.115	6.906	1.105	.7400	.9478	.5295
#1	93.58	98.69	102.6	89.27	99.96	101.2
#2	88.40	91.10	100.4	88.84	99.71	100.3
#3	93.08	86.07	101.8	90.14	101.5	101.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	97.92	102.3	102.2	F -355.1
Stddev	.97	1.0	.9	5.9
%RSD	.9922	.9288	.9039	1.652
#1	97.55	103.1	103.2	-360.4
#2	99.03	102.5	101.3	-348.8
#3	97.19	101.3	102.0	-356.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				200.0
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6314.4	38898.	8636.4
Stddev	53.2	396.	91.0
%RSD	.84319	1.0172	1.0538
#1	6253.4	38480.	8558.1
#2	6338.3	39267.	8736.3
#3	6351.4	38946.	8614.9

Sample Name: CAL1 Acquired: 5/31/2018 10:55:32 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0001	.0005	.0010	.0004	.0003
Stddev	.0001	.0000	.0000	.0001	.0001
%RSD	59.34	7.521	3.766	17.03	21.52

#1	.0001	.0005	.0010	.0003	.0003
#2	.0000	.0005	.0010	.0004	.0003
#3	.0002	.0005	.0009	.0004	.0002

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	6995.3
Stddev	12.1
%RSD	.17244

#1	7004.8
#2	6981.7
#3	6999.2

Sample Name: pds 460-157010-a-9-c Acquired: 5/31/2018 11:55:08 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32980.	2079.	43.63	2436.	51.17	27110.
Stddev	82.	3.	.13	5.	.14	115.
%RSD	.2495	.1237	.2967	.1982	.2807	.4245

#1	33070.	2078.	43.76	2437.	51.04	27120.
#2	32950.	2082.	43.50	2441.	51.32	26980.
#3	32910.	2078.	43.65	2431.	51.15	27210.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.07	557.2	283.8	345.0	99950.	21390.
Stddev	.17	.2	1.6	4.1	298.	105.
%RSD	.3546	.0307	.5618	1.177	.2978	.4917

#1	48.11	557.1	285.4	349.6	100000.	21490.
#2	48.22	557.2	282.2	342.5	99610.	21400.
#3	47.88	557.4	283.7	342.7	100200.	21280.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30000.	1474.	19350.	852.4	611.1	459.5
Stddev	99.	4.	75.	1.8	2.7	3.8
%RSD	.3310	.3031	.3880	.2140	.4442	.8253

#1	30070.	1476.	19410.	851.2	610.1	463.5
#2	29890.	1468.	19360.	854.5	614.1	455.9
#3	30050.	1476.	19260.	851.5	608.9	459.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-157010-a-9-c Acquired: 5/31/2018 11:55:08 Type: Unk
Method: BC052518(v7) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1870.	2076.	577.8	881.2	499.5	496.0
Stddev	10.	9.	4.5	4.7	1.9	1.5
%RSD	.5488	.4518	.7856	.5372	.3715	.3119
#1	1881.	2079.	583.0	875.7	500.7	497.3
#2	1860.	2066.	575.0	883.5	497.4	494.3
#3	1868.	2084.	575.3	884.3	500.5	496.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	494.8	566.8	1484.	898.6
Stddev	1.7	2.3	6.	1.9
%RSD	.3387	.4076	.3714	.2117
#1	495.1	569.2	1490.	896.5
#2	493.0	566.6	1481.	900.2
#3	496.3	564.6	1480.	899.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7110.1	44976.	9603.8
Stddev	18.7	244.	44.5
%RSD	.26341	.54231	.46296
#1	7091.5	44711.	9553.1
#2	7109.8	45191.	9622.4
#3	7128.9	45026.	9636.0

Sample Name: CAL3 Acquired: 5/31/2018 11:03:30 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.8798	.0245	.0515	1.244	.9389	.5180
Stddev	.0048	.0001	.0006	.003	.0041	.0033
%RSD	.5450	.4725	1.190	.1993	.4320	.6402

#1	.8835	.0245	.0520	1.245	.9434	.5212
#2	.8744	.0247	.0517	1.241	.9355	.5145
#3	.8815	.0244	.0508	1.246	.9379	.5184

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2433	.3991	.1396	.8079	.1228	.3228
Stddev	.0009	.0030	.0011	.0053	.0007	.0022
%RSD	.3576	.7447	.7929	.6538	.5602	.6805

#1	.2438	.4013	.1408	.8132	.1235	.3244
#2	.2423	.3957	.1386	.8080	.1221	.3203
#3	.2438	.4003	.1395	.8026	.1228	.3237

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2138	.5714	2.507	.1021	.1886	.0159
Stddev	.0014	.0039	.013	.0003	.0008	.0001
%RSD	.6322	.6892	.5215	.2895	.4057	.9280

#1	.2151	.5759	2.517	.1024	.1886	.0159
#2	.2124	.5685	2.492	.1018	.1878	.0161
#3	.2138	.5699	2.511	.1021	.1893	.0158

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0150	.0204	.1257	.4554	.0808	.1551
Stddev	.0001	.0001	.0009	.0035	.0005	.0007
%RSD	.9823	.4060	.6951	.7597	.5986	.4505

#1	.0150	.0203	.1267	.4562	.0808	.1550
#2	.0151	.0205	.1250	.4516	.0813	.1558
#3	.0148	.0204	.1253	.4584	.0803	.1544

Sample Name: CAL3 Acquired: 5/31/2018 11:03:30 Type: Cal
Method: BC052518(v7) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0306	5.572	2.023	.1064
Stddev	.0000	.039	.011	.0010
%RSD	.0233	.6953	.5260	.9009

#1	.0306	5.612	2.035	.1075
#2	.0306	5.534	2.017	.1059
#3	.0306	5.572	2.016	.1058

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7013.0	43045.	9102.4
Stddev	54.4	523.	20.2
%RSD	.77562	1.2161	.22191

#1	6951.9	42443.	9079.4
#2	7031.0	43391.	9117.5
#3	7056.1	43302.	9110.2

Sample Name: 460-156901-a-12-f@4 Acquired: 5/31/2018 14:26:45 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20100.	4.068	-6285	179.8	1.345	8416.
Stddev	127.	1.130	.1102	.4	.087	118.
%RSD	.6321	27.77	17.54	.2258	6.453	1.401
#1	20200.	4.836	-.6504	179.9	1.251	8284.
#2	19960.	2.771	-.7261	180.2	1.364	8452.
#3	20140.	4.598	-.5089	179.4	1.421	8512.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8494	19.41	57.07	62.55	42170.	2138.
Stddev	.0964	.07	.49	.13	254.	12.
%RSD	11.35	.3528	.8606	.2124	.6028	.5803
#1	-.8488	19.45	56.58	62.40	41890.	2140.
#2	-.7533	19.45	57.06	62.58	42220.	2125.
#3	-.9461	19.33	57.56	62.66	42390.	2150.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6538.	1299.	574.1	36.25	51.82	-3.350
Stddev	64.	6.	6.9	.32	.93	.352
%RSD	.9734	.4885	1.200	.8730	1.796	10.52
#1	6492.	1292.	581.8	35.88	51.30	-3.451
#2	6511.	1300.	572.1	36.43	51.27	-3.641
#3	6610.	1305.	568.5	36.44	52.89	-2.958

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156901-a-12-f@4 Acquired: 5/31/2018 14:26:45 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.314	-.4695	80.15	95.80	22.94	.4736
Stddev	1.519	.4632	.24	.64	.36	.0535
%RSD	65.63	98.66	.3045	.6631	1.591	11.29
#1	-3.702	-.3487	80.08	95.07	22.75	.4478
#2	-2.549	-.0786	79.95	96.12	23.36	.5351
#3	-.6917	-.9811	80.42	96.22	22.70	.4380

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.833	33.73	1142.	951.5
Stddev	.258	.17	3.	15.5
%RSD	5.346	.5012	.2470	1.634
#1	4.615	33.91	1139.	957.5
#2	4.766	33.57	1143.	963.1
#3	5.119	33.72	1144.	933.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7307.1	45434.	9274.2
Stddev	16.4	199.	167.4
%RSD	.22440	.43695	1.8046
#1	7313.2	45619.	9260.6
#2	7319.6	45460.	9447.9
#3	7288.5	45224.	9114.0

Sample Name: 460-157010-a-14-a@4 Acquired: 5/31/2018 12:50:52 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49730.	48.20	-2.106	381.8	14.95	10440.
Stddev	218.	.97	.115	1.6	.09	149.
%RSD	.4392	2.010	5.461	.4099	.5946	1.428
#1	49650.	47.87	-2.137	382.4	15.05	10320.
#2	49570.	49.29	-1.979	380.0	14.87	10400.
#3	49980.	47.44	-2.203	383.0	14.93	10610.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.716	32.80	124.6	43.61	F 227500.	4955.
Stddev	.868	.13	1.0	.34	2877.	2.
%RSD	23.37	.4096	.7629	.7727	1.265	.0449
#1	-2.786	32.92	123.5	43.95	225000.	4956.
#2	-3.856	32.66	125.2	43.60	226800.	4952.
#3	-4.505	32.81	125.1	43.28	230700.	4957.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10310.	995.0	303.6	108.0	124.4	-7.348
Stddev	158.	12.2	5.2	.5	1.4	.825
%RSD	1.536	1.227	1.728	.4936	1.150	11.22
#1	10180.	984.4	303.7	107.4	124.0	-8.297
#2	10250.	992.4	298.3	108.4	123.2	-6.810
#3	10480.	1008.	308.8	108.2	126.0	-6.936

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-14-a@4 Acquired: 5/31/2018 12:50:52 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.870	-4.585	110.3	379.6	39.16	5.624
Stddev	1.422	.566	1.0	3.4	.58	.106
%RSD	16.03	12.34	.8645	.8833	1.490	1.883
#1	-7.310	-5.137	109.5	379.7	38.97	5.502
#2	-9.204	-4.007	110.1	382.9	38.70	5.693
#3	-10.09	-4.610	111.3	376.2	39.82	5.676

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.033	129.3	609.2	1106.
Stddev	.584	.4	5.0	32.
%RSD	28.73	.2826	.8140	2.925
#1	1.924	129.3	604.6	1097.
#2	2.664	128.9	608.4	1142.
#3	1.511	129.7	614.5	1080.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7341.8	46189.	9862.6
Stddev	42.0	246.	94.9
%RSD	.57219	.53356	.96200
#1	7294.5	46310.	9810.1
#2	7374.6	46352.	9972.1
#3	7356.5	45905.	9805.5

Sample Name: 460-157010-a-12-a@4 Acquired: 5/31/2018 12:43:15 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32430.	280.3	-1.788	282.1	6.369	9310.
Stddev	72.	1.9	.180	.7	.130	63.
%RSD	.2207	.6691	10.09	.2524	2.034	.6749
#1	32360.	280.9	-1.849	282.1	6.400	9238.
#2	32500.	278.3	-1.930	281.4	6.481	9335.
#3	32420.	281.9	-1.585	282.8	6.227	9356.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.202	68.24	96.24	65.12	134700.	5561.
Stddev	.141	.45	.59	.72	763.	21.
%RSD	6.408	.6645	.6170	1.103	.5662	.3835
#1	-2.099	68.02	95.63	65.46	133800.	5583.
#2	-2.363	67.94	96.26	64.30	135100.	5560.
#3	-2.145	68.76	96.82	65.61	135200.	5540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18460.	1563.	680.3	271.4	108.2	-4.771
Stddev	137.	9.	.7	2.7	2.4	1.069
%RSD	.7405	.6013	.1085	.9956	2.196	22.41
#1	18310.	1552.	680.0	270.4	107.2	-5.865
#2	18550.	1568.	679.7	269.4	106.6	-4.720
#3	18540.	1569.	681.1	274.5	111.0	-3.728

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-12-a@4 Acquired: 5/31/2018 12:43:15 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.443	-3.178	84.70	342.7	40.34	2.991
Stddev	1.494	2.531	.52	5.1	.37	.394
%RSD	17.70	79.64	.6096	1.487	.9170	13.16
#1	-6.725	-8.981	84.58	340.0	40.20	2.937
#2	-9.432	-5.902	84.25	339.5	40.07	3.409
#3	-9.174	-2.735	85.26	348.6	40.76	2.627

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.334	95.74	1009.	789.6
Stddev	.568	.25	4.	6.0
%RSD	13.10	.2642	.4265	.7575
#1	4.984	95.72	1004.	786.0
#2	3.937	96.00	1011.	786.2
#3	4.080	95.50	1012.	796.5

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7113.8	44303.	9400.5
Stddev	38.8	199.	52.5
%RSD	.54472	.44981	.55858
#1	7069.0	44246.	9380.0
#2	7137.0	44138.	9361.3
#3	7135.2	44524.	9460.1

Sample Name: 460-157010-a-13-a@4 Acquired: 5/31/2018 12:47:03 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29220.	312.8	-9643	329.2	4.284	6686.
Stddev	413.	2.8	.0607	2.2	.026	16.
%RSD	1.415	.8910	6.299	.6649	.6104	.2455

#1	28740.	311.3	-1.012	327.2	4.300	6699.
#2	29420.	316.1	-.9852	331.5	4.254	6667.
#3	29490.	311.1	-.8959	328.7	4.299	6690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.528	51.75	88.48	146.2	98750.	3315.
Stddev	.205	.76	.11	2.1	659.	67.
%RSD	13.41	1.477	.1187	1.443	.6673	2.008

#1	-1.758	50.87	88.55	148.6	99510.	3245.
#2	-1.367	52.29	88.54	145.1	98330.	3325.
#3	-1.457	52.08	88.36	144.9	98410.	3377.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11730.	1327.	371.9	194.2	132.7	-2.555
Stddev	79.	9.	8.8	1.2	2.0	.368
%RSD	.6745	.7021	2.363	.6057	1.521	14.39

#1	11820.	1338.	372.8	192.8	130.6	-2.344
#2	11690.	1321.	380.3	195.0	134.6	-2.342
#3	11680.	1322.	362.8	194.7	132.8	-2.980

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-13-a@4 Acquired: 5/31/2018 12:47:03 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.444	-1.183	103.3	266.1	28.83	2.404
Stddev	2.626	.928	.9	1.3	.79	.138
%RSD	76.23	78.44	.8658	.4838	2.755	5.719
#1	-5.330	-2.211	104.3	265.0	28.71	2.532
#2	-4.557	-4.072	103.1	267.5	29.69	2.259
#3	-4.456	-9.309	102.5	265.7	28.11	2.423

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.017	68.10	786.6	694.5
Stddev	.301	.86	7.1	26.9
%RSD	3.751	1.257	.9034	3.873
#1	7.670	67.12	794.8	722.0
#2	8.179	68.69	782.1	693.5
#3	8.203	68.50	783.0	668.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7219.9	44720.	9518.3
Stddev	75.3	761.	138.1
%RSD	1.0425	1.7008	1.4504
#1	7196.9	43916.	9677.5
#2	7158.9	44817.	9445.5
#3	7304.0	45428.	9431.9

Sample Name: 460-157010-a-9-c@4 Acquired: 5/31/2018 12:39:26 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30790.	241.3	-8592	429.2	4.014	8882.
Stddev	67.	2.4	.2988	6.2	.091	69.
%RSD	.2176	.9827	34.78	1.448	2.278	.7718

#1	30710.	241.2	-.6320	427.5	4.097	8804.
#2	30820.	243.7	-1.198	436.1	3.916	8907.
#3	30840.	238.9	-.7479	424.0	4.029	8934.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6084	54.76	90.73	107.4	100100.	3405.
Stddev	.1989	.84	.19	.4	524.	34.
%RSD	32.69	1.534	.2079	.3336	.5235	.9856

#1	-.6803	54.46	90.52	107.4	99510.	3423.
#2	-.3836	55.71	90.89	107.0	100300.	3426.
#3	-.7612	54.11	90.79	107.7	100500.	3366.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12170.	988.5	689.8	372.9	116.7	-4.067
Stddev	74.	4.5	6.0	5.3	2.0	.669
%RSD	.6082	.4514	.8652	1.423	1.687	16.45

#1	12080.	983.6	684.1	372.3	117.7	-4.774
#2	12200.	989.6	689.1	378.4	118.0	-3.444
#3	12210.	992.3	696.0	367.9	114.5	-3.984

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-9-c@4 Acquired: 5/31/2018 12:39:26 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.203	-.0709	98.72	411.0	30.91	2.150
Stddev	1.254	1.949	.73	6.6	1.03	.238
%RSD	29.83	2747.	.7399	1.602	3.327	11.05
#1	-4.464	-1.318	97.95	411.0	31.05	2.425
#2	-5.305	-1.070	98.81	417.5	31.86	2.017
#3	-2.839	2.175	99.41	404.4	29.82	2.010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.918	91.09	982.9	865.4
Stddev	.588	.24	1.9	24.6
%RSD	9.935	.2671	.1931	2.844
#1	6.253	91.37	980.7	889.2
#2	5.239	91.01	983.6	866.8
#3	6.261	90.90	984.3	840.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7267.1	45877.	9631.0
Stddev	70.3	144.	145.0
%RSD	.96693	.31392	1.5057
#1	7236.2	45756.	9790.3
#2	7217.5	46036.	9506.6
#3	7347.5	45839.	9596.2

Sample Name: 460-157010-a-24-a@4 Acquired: 5/31/2018 13:40:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26400.	17.98	-1.237	372.8	2.526	2361.
Stddev	204.	.32	.145	3.5	.042	29.
%RSD	.7718	1.764	11.73	.9275	1.655	1.230
#1	26490.	18.25	-1.074	368.9	2.498	2339.
#2	26170.	18.06	-1.351	373.8	2.505	2351.
#3	26540.	17.63	-1.287	375.6	2.574	2394.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7187	22.96	61.57	47.56	55560.	2367.
Stddev	.1277	.43	1.07	.16	574.	14.
%RSD	17.77	1.881	1.745	.3266	1.032	.6053
#1	-.8556	22.65	60.77	47.46	55170.	2372.
#2	-.6028	22.78	61.14	47.48	55310.	2351.
#3	-.6977	23.46	62.79	47.74	56220.	2378.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5128.	251.1	120.0	73.96	44.15	-1.723
Stddev	61.	2.3	4.7	1.04	1.49	.949
%RSD	1.192	.9270	3.911	1.406	3.365	55.10
#1	5069.	249.5	114.7	73.49	44.02	-.6400
#2	5123.	250.1	121.3	73.25	42.73	-2.117
#3	5191.	253.8	123.8	75.16	45.69	-2.412

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-24-a@4 Acquired: 5/31/2018 13:40:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.023	-2.379	73.42	242.5	9.145	.3895
Stddev	1.645	.643	.81	4.4	.253	.0403
%RSD	40.89	27.04	1.108	1.803	2.768	10.35
#1	-2.974	-1.636	72.82	238.8	8.964	.4308
#2	-3.177	-2.758	73.10	241.3	9.036	.3503
#3	-5.920	-2.742	74.35	247.3	9.434	.3873

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.338	46.94	252.0	801.3
Stddev	.302	.31	1.1	14.1
%RSD	22.60	.6703	.4434	1.765
#1	1.675	46.92	251.0	786.1
#2	1.248	46.64	251.7	814.1
#3	1.090	47.27	253.2	803.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7520.2	47119.	9836.3
Stddev	17.9	250.	199.5
%RSD	.23772	.53122	2.0283
#1	7504.7	46863.	9608.3
#2	7516.1	47363.	9978.8
#3	7539.8	47130.	9921.9

Sample Name: 460-157010-a-15-a@4 Acquired: 5/31/2018 12:54:42 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44540.	235.1	-5615	975.1	11.56	13080.
Stddev	174.	2.3	.4820	2.0	.04	101.
%RSD	.3897	.9898	85.83	.2094	.3040	.7703
#1	44350.	237.8	-.5149	976.9	11.52	12960.
#2	44690.	233.7	-.1046	972.9	11.59	13120.
#3	44590.	233.9	-1.065	975.6	11.58	13150.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.509	69.58	110.9	6506.	F 374000.	2393.
Stddev	.464	.51	.4	20.	897.	24.
%RSD	30.74	.7269	.3270	.3014	.2398	1.013
#1	-.9956	69.98	110.9	6529.	373300.	2421.
#2	-1.635	69.01	111.2	6496.	373800.	2376.
#3	-1.898	69.75	110.5	6493.	375000.	2382.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18580.	5741.	255.3	836.4	335.0	-18.49
Stddev	37.	10.	3.2	3.9	1.2	.71
%RSD	.2009	.1691	1.258	.4647	.3602	3.849
#1	18550.	5737.	252.1	838.8	335.0	-18.67
#2	18580.	5735.	255.3	831.9	333.9	-17.71
#3	18620.	5753.	258.5	838.5	336.3	-19.10

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-15-a@4 Acquired: 5/31/2018 12:54:42 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -15.89	-10.99	342.0	698.4	43.81	15.14
Stddev	3.31	1.23	2.6	4.0	.47	.35
%RSD	20.82	11.15	.7470	.5737	1.066	2.341
#1	-15.37	-10.20	344.0	693.8	43.46	15.02
#2	-19.42	-12.40	342.9	700.0	44.34	15.53
#3	-12.86	-10.37	339.1	701.3	43.63	14.85
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	5000.					
Low Limit	-10.00					

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.048	162.9	356.6	856.9
Stddev	.685	.5	.9	44.5
%RSD	11.32	.3115	.2543	5.199
#1	6.300	163.5	357.6	907.7
#2	6.570	162.6	355.8	824.4
#3	5.272	162.7	356.3	838.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7491.6	47067.	9805.8
Stddev	73.0	447.	142.5
%RSD	.97398	.95040	1.4535
#1	7408.5	46551.	9968.8
#2	7545.2	47323.	9704.9
#3	7521.1	47327.	9743.5

Sample Name: 460-157010-e-20-a@4 Acquired: 5/31/2018 13:25:32 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36600.	410.1	-.5181	210.1	1.990	2790.
Stddev	365.	6.7	.2474	4.0	.104	12.
%RSD	.9963	1.638	47.75	1.894	5.211	.4316

#1	36600.	413.0	-.7132	212.9	2.105	2784.
#2	36960.	414.8	-.2398	211.9	1.962	2804.
#3	36230.	402.4	-.6012	205.5	1.903	2783.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.195	24.97	51.93	97.74	71960.	977.0
Stddev	.122	.40	.49	.79	645.	40.6
%RSD	10.22	1.584	.9476	.8093	.8962	4.155

#1	-1.100	25.21	52.06	98.57	72200.	932.6
#2	-1.152	25.19	52.34	97.67	72450.	1012.
#3	-1.333	24.52	51.38	96.99	71230.	985.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2668.	663.0	571.9	160.2	129.0	.6646
Stddev	22.	5.1	8.2	3.4	2.4	.6939
%RSD	.8305	.7652	1.442	2.129	1.883	104.4

#1	2673.	665.0	575.8	162.0	129.4	-.1329
#2	2688.	666.7	577.5	162.4	131.3	1.131
#3	2644.	657.2	562.4	156.3	126.4	.9957

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-e-20-a@4 Acquired: 5/31/2018 13:25:32 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.489	-1.511	95.96	133.6	12.23	3.074
Stddev	.621	2.148	.66	1.9	.36	.176
%RSD	24.97	142.2	.6884	1.406	2.952	5.732
#1	-3.090	-3.954	96.00	134.7	12.60	2.885
#2	-2.528	.0792	96.60	134.7	11.88	3.234
#3	-1.849	-.6571	95.28	131.4	12.19	3.104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.492	24.74	672.1	781.3
Stddev	.186	.22	3.7	15.5
%RSD	2.193	.8790	.5559	1.980
#1	8.622	24.82	674.5	788.5
#2	8.575	24.90	673.9	791.9
#3	8.278	24.49	667.8	763.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7147.9	44725.	9306.5
Stddev	24.0	173.	21.1
%RSD	.33585	.38605	.22712
#1	7123.8	44639.	9316.9
#2	7148.1	44611.	9282.2
#3	7171.8	44923.	9320.4

Sample Name: 460-157010-a-25-a@4 Acquired: 5/31/2018 13:44:45 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41060.	31.44	-1.721	323.0	3.946	3841.
Stddev	364.	.35	.162	2.1	.038	29.
%RSD	.8852	1.125	9.399	.6352	.9549	.7462
#1	40640.	31.46	-1.820	320.6	3.922	3831.
#2	41260.	31.79	-1.534	324.3	3.926	3873.
#3	41290.	31.08	-1.809	324.1	3.989	3818.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.047	25.94	115.2	74.18	169800.	4043.
Stddev	.354	.32	1.4	.61	746.	67.
%RSD	17.29	1.232	1.227	.8263	.4394	1.658
#1	-2.390	25.58	115.0	74.09	169500.	3967.
#2	-2.067	26.19	116.7	74.83	170600.	4093.
#3	-1.683	26.04	113.9	73.61	169200.	4070.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7910.	540.2	82.85	90.95	98.64	-5.616
Stddev	98.	1.4	5.61	.65	1.34	2.410
%RSD	1.235	.2667	6.775	.7153	1.356	42.91
#1	7884.	539.4	79.04	90.52	97.20	-6.429
#2	8018.	541.9	89.29	91.70	98.88	-7.514
#3	7828.	539.4	80.20	90.63	99.84	-2.905

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-25-a@4 Acquired: 5/31/2018 13:44:45 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.038	.2948	133.7	282.8	25.93	3.856
Stddev	1.114	.7409	2.0	1.9	.67	.236
%RSD	22.10	251.3	1.465	.6593	2.585	6.125
#1	-4.285	.3628	132.7	283.6	25.86	3.961
#2	-4.513	-.4778	136.0	284.1	26.63	3.585
#3	-6.317	.9993	132.5	280.7	25.29	4.021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.139	59.55	685.8	944.7
Stddev	.133	.75	2.2	4.4
%RSD	4.221	1.266	.3218	.4656
#1	2.987	58.68	683.3	949.4
#2	3.232	59.94	686.8	940.8
#3	3.199	60.03	687.4	943.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7287.9	45570.	9523.3
Stddev	62.1	566.	59.6
%RSD	.85249	1.2431	.62542
#1	7257.1	45096.	9499.5
#2	7247.1	45418.	9479.3
#3	7359.4	46197.	9591.1

Sample Name: 460-156901-a-12-h.ms Acquired: 5/31/2018 14:19:11 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22790.	952.0	22.01	1239.	26.04	18650.
Stddev	60.	4.8	.29	4.	.16	202.
%RSD	.2632	.4994	1.310	.3493	.6148	1.082
#1	22820.	957.5	21.68	1244.	26.05	18430.
#2	22840.	949.3	22.13	1236.	26.19	18830.
#3	22730.	949.3	22.21	1237.	25.88	18700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.94	290.3	159.0	191.6	47370.	11510.
Stddev	.26	1.0	.3	.6	337.	29.
%RSD	1.039	.3402	.1832	.2899	.7112	.2512
#1	25.23	291.3	158.7	191.7	46990.	11540.
#2	24.83	290.1	159.0	191.0	47630.	11510.
#3	24.75	289.4	159.3	192.1	47490.	11480.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16520.	1652.	10230.	303.1	297.3	236.6
Stddev	123.	10.	26.	1.0	.6	2.8
%RSD	.7428	.6055	.2550	.3364	.1914	1.171
#1	16390.	1641.	10250.	303.0	296.7	239.7
#2	16630.	1659.	10250.	304.1	297.8	236.0
#3	16550.	1657.	10200.	302.1	297.5	234.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156901-a-12-h.ms Acquired: 5/31/2018 14:19:11 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	975.0	1127.	341.1	377.4	270.0	264.6
Stddev	12.5	13.	1.5	4.6	3.0	3.2
%RSD	1.281	1.185	.4526	1.217	1.123	1.197
#1	989.4	1142.	339.3	382.1	273.5	268.1
#2	968.1	1119.	342.3	377.0	268.4	262.1
#3	967.5	1120.	341.7	373.0	268.1	263.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	267.2	282.9	1568.	1104.
Stddev	3.7	.9	3.	22.
%RSD	1.369	.3098	.1770	1.988
#1	271.1	283.9	1565.	1129.
#2	266.7	282.5	1570.	1094.
#3	263.8	282.2	1571.	1089.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7200.1	44895.	9257.3
Stddev	42.6	103.	86.0
%RSD	.59168	.22882	.92873
#1	7151.4	44917.	9328.5
#2	7218.5	44784.	9161.8
#3	7230.5	44986.	9281.6

Sample Name: sd 460-156901-a-12-f Acquired: 5/31/2018 14:30:37 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3915.	1.150	.1110	35.73	.2393	1737.
Stddev	4.	1.828	.1867	.38	.0256	10.
%RSD	.1013	158.9	168.1	1.056	10.70	.5851

#1	3919.	.2892	-.0894	35.31	.2537	1748.
#2	3913.	-.0879	.2799	35.86	.2098	1729.
#3	3912.	3.250	.1426	36.03	.2545	1732.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1574	3.624	11.55	12.36	8662.	451.2
Stddev	.0783	.024	.51	.11	74.	23.7
%RSD	49.77	.6664	4.372	.8722	.8532	5.252

#1	-.1114	3.639	11.86	12.37	8649.	475.6
#2	-.2478	3.596	11.82	12.24	8596.	449.8
#3	-.1130	3.637	10.97	12.46	8742.	428.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1317.	259.0	109.2	7.810	9.302	-1.819
Stddev	17.	2.3	5.2	.227	.570	1.107
%RSD	1.263	.8849	4.787	2.909	6.127	60.85

#1	1306.	261.6	107.7	8.072	8.747	-.6520
#2	1308.	257.1	104.9	7.688	9.272	-2.854
#3	1336.	258.5	115.0	7.670	9.886	-1.951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-156901-a-12-f Acquired: 5/31/2018 14:30:37 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.131	1.745	15.64	19.06	4.228	-1.1855
Stddev	.561	1.310	.24	.33	.314	.1180
%RSD	49.62	75.04	1.510	1.743	7.433	63.64
#1	-.5087	1.119	15.36	19.29	4.307	-.0877
#2	-1.599	.8664	15.78	19.21	4.494	-.1522
#3	-1.286	3.251	15.77	18.68	3.881	-.3166

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.9736	6.627	224.6	175.9
Stddev	.3016	.008	2.5	12.9
%RSD	30.98	.1255	1.120	7.326
#1	1.212	6.631	227.5	162.8
#2	.6345	6.618	223.0	188.5
#3	1.074	6.633	223.3	176.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7282.5	44789.	9191.5
Stddev	42.2	312.	42.5
%RSD	.57924	.69740	.46217
#1	7250.5	44431.	9208.0
#2	7266.6	44930.	9223.3
#3	7330.3	45007.	9143.3

Sample Name: sd 460-157010-a-9-c Acquired: 5/31/2018 12:31:42 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6159.	47.34	-.1976	86.36	.8004	1847.
Stddev	34.	1.47	.1471	.44	.0483	8.
%RSD	.5479	3.097	74.43	.5132	6.038	.4314
#1	6163.	47.49	-.2065	86.87	.8550	1852.
#2	6123.	48.73	-.3400	86.14	.7631	1837.
#3	6190.	45.81	-.0463	86.07	.7831	1850.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2609	10.89	18.68	21.18	20510.	678.9
Stddev	.0871	.06	.55	.16	65.	26.1
%RSD	33.38	.5343	2.925	.7345	.3190	3.840
#1	-.2680	10.84	18.37	21.17	20460.	700.5
#2	-.1705	10.88	18.37	21.34	20490.	686.4
#3	-.3442	10.95	19.31	21.03	20590.	650.0

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2556.	206.2	145.9	75.38	23.22	-.7392
Stddev	8.	1.8	8.4	.83	.19	1.309
%RSD	.3069	.8712	5.745	1.098	.8375	177.0
#1	2554.	205.1	155.5	76.08	23.36	-1.857
#2	2548.	205.3	141.6	74.46	23.00	-1.061
#3	2564.	208.3	140.4	75.59	23.31	.7002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: sd 460-157010-a-9-c Acquired: 5/31/2018 12:31:42 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.824	1.093	19.74	85.66	6.993	.2571
Stddev	1.080	.897	.32	.70	.531	.3005
%RSD	38.25	82.05	1.610	.8138	7.595	116.9
#1	-2.443	.4243	19.75	85.14	7.600	.6013
#2	-4.043	.7422	19.42	85.39	6.613	.0473
#3	-1.986	2.112	20.06	86.45	6.766	.1227

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.414	18.19	198.7	185.0
Stddev	.197	.12	.7	4.6
%RSD	13.93	.6540	.3638	2.507
#1	1.187	18.26	197.9	187.4
#2	1.516	18.26	199.0	187.9
#3	1.539	18.05	199.2	179.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7145.2	44470.	9316.0
Stddev	10.7	278.	56.1
%RSD	.15023	.62500	.60267
#1	7156.6	44638.	9256.7
#2	7143.6	44623.	9368.4
#3	7135.3	44149.	9322.8

Sample Name: 460-157010-a-28-a@4 Acquired: 5/31/2018 14:07:57 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37230.	420.4	-1.514	372.2	5.930	7097.
Stddev	223.	1.4	.203	1.0	.046	67.
%RSD	.5994	.3331	13.40	.2730	.7688	.9455
#1	37410.	421.3	-1.283	372.5	5.893	7088.
#2	37280.	421.1	-1.596	373.1	5.980	7168.
#3	36980.	418.8	-1.662	371.1	5.916	7035.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.691	45.46	105.0	56.84	137300.	3042.
Stddev	.186	.28	1.1	.75	1158.	14.
%RSD	6.913	.6080	1.053	1.319	.8433	.4733
#1	-2.712	45.46	104.4	57.20	137500.	3031.
#2	-2.866	45.73	106.3	57.34	138400.	3058.
#3	-2.496	45.18	104.3	55.98	136100.	3036.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8749.	605.6	355.7	73.84	180.3	-4.532
Stddev	92.	4.7	9.7	.40	1.8	.965
%RSD	1.049	.7727	2.728	.5357	1.018	21.30
#1	8662.	606.6	361.9	74.25	181.4	-3.571
#2	8739.	609.7	360.7	73.46	181.4	-5.501
#3	8845.	600.5	344.5	73.80	178.2	-4.522

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-28-a@4 Acquired: 5/31/2018 14:07:57 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.866	-5.732	127.7	325.4	20.32	3.870
Stddev	1.636	.8066	1.0	2.3	.67	.286
%RSD	27.90	140.7	.8118	.6973	3.277	7.398
#1	-7.688	-1.268	128.0	327.9	21.07	3.795
#2	-5.386	-7.632	128.6	325.0	20.08	4.186
#3	-4.523	.3115	126.6	323.4	19.80	3.629

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.852	102.5	509.4	756.3
Stddev	.229	1.1	4.1	22.4
%RSD	4.720	1.046	.7983	2.968
#1	4.666	103.2	510.9	765.3
#2	5.108	102.9	512.5	772.9
#3	4.783	101.3	504.8	730.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7301.1	45473.	9499.0
Stddev	62.7	518.	37.6
%RSD	.85854	1.1389	.39553
#1	7232.3	45014.	9471.1
#2	7315.8	45371.	9484.3
#3	7355.0	46035.	9541.7

Sample Name: 460-157010-a-26-a@4 Acquired: 5/31/2018 14:00:17 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37090.	42.40	-2.035	475.6	7.022	9831.
Stddev	127.	.69	.530	1.0	.041	92.
%RSD	.3428	1.619	26.07	.2093	.5880	.9323

#1	37020.	41.91	-1.444	474.4	7.012	9759.
#2	37010.	42.11	-2.189	476.2	6.987	9801.
#3	37230.	43.19	-2.471	476.2	7.068	9934.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.905	30.27	94.03	50.82	167100.	4184.
Stddev	.180	.35	.66	.13	1174.	26.
%RSD	9.439	1.172	.6979	.2642	.7023	.6141

#1	-1.950	30.29	93.40	50.98	166000.	4156.
#2	-1.707	29.90	93.97	50.76	166900.	4188.
#3	-2.058	30.61	94.71	50.74	168400.	4207.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9034.	1271.	213.4	102.0	160.7	-7.119
Stddev	82.	8.	5.6	1.2	1.2	1.728
%RSD	.9037	.6514	2.608	1.217	.7399	24.27

#1	8979.	1263.	215.1	102.2	161.2	-6.119
#2	8995.	1271.	207.2	100.7	159.4	-9.114
#3	9128.	1280.	217.9	103.2	161.6	-6.124

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-26-a@4 Acquired: 5/31/2018 14:00:17 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.086	-4.883	98.34	368.5	29.81	4.027
Stddev	1.051	.814	.58	6.6	.57	.074
%RSD	14.83	16.68	.5876	1.802	1.922	1.841
#1	-7.431	-5.720	98.34	362.7	29.29	4.112
#2	-5.906	-4.093	97.76	367.1	29.70	3.993
#3	-7.921	-4.837	98.91	375.7	30.42	3.976

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.821	145.4	514.1	921.3
Stddev	.566	.2	1.5	13.4
%RSD	20.06	.1234	.2934	1.457
#1	2.372	145.4	512.7	936.6
#2	3.456	145.2	513.9	911.7
#3	2.634	145.6	515.7	915.5

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7155.7	44862.	9456.1
Stddev	41.5	254.	60.8
%RSD	.58014	.56634	.64261
#1	7107.7	44572.	9491.1
#2	7180.6	45048.	9491.2
#3	7178.6	44964.	9385.9

Sample Name: 460-157010-a-16-a@4 Acquired: 5/31/2018 13:10:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55130.	382.9	-4698	414.1	3.460	25770.
Stddev	199.	7.4	.1405	9.6	.055	81.
%RSD	.3614	1.929	29.90	2.315	1.574	.3141
#1	55350.	381.5	-.3084	412.4	3.479	25700.
#2	55060.	376.3	-.5356	405.4	3.502	25750.
#3	54980.	390.9	-.5652	424.4	3.398	25860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.956	66.27	141.0	450.0	109300.	2878.
Stddev	.341	1.56	.7	5.2	113.	29.
%RSD	17.40	2.359	.4833	1.158	.1032	.9954
#1	1.856	66.26	140.9	456.0	109400.	2911.
#2	1.678	64.71	140.3	446.2	109200.	2864.
#3	2.336	67.83	141.7	447.9	109400.	2859.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25470.	2656.	3586.	580.9	196.0	-3.304
Stddev	28.	7.	24.	15.0	4.2	1.282
%RSD	.1088	.2759	.6705	2.577	2.161	38.82
#1	25490.	2663.	3613.	579.1	196.4	-4.408
#2	25440.	2649.	3577.	566.9	191.6	-3.606
#3	25470.	2654.	3567.	596.7	200.1	-1.897

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-16-a@4 Acquired: 5/31/2018 13:10:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.429	-1.410	194.0	588.7	138.7	4.129
Stddev	1.451	1.421	.7	18.7	3.2	.175
%RSD	42.31	100.8	.3834	3.170	2.285	4.247
#1	-3.369	-2.938	194.9	580.8	138.4	4.008
#2	-2.009	-.1282	193.5	575.2	135.7	4.048
#3	-4.908	-1.165	193.6	610.0	142.0	4.330

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.12	150.4	1680.	925.8
Stddev	.80	.7	11.	16.7
%RSD	7.198	.4483	.6577	1.809
#1	10.96	151.0	1692.	925.9
#2	10.41	150.5	1673.	909.0
#3	11.98	149.7	1673.	942.5

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7051.8	45078.	9727.8
Stddev	105.5	401.	91.1
%RSD	1.4965	.88846	.93640
#1	7026.0	44667.	9627.2
#2	7167.8	45100.	9804.7
#3	6961.6	45467.	9751.6

Sample Name: CCB Acquired: 5/31/2018 13:52:20 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.128	.5157	.0522	.3954	.0153	12.39
Stddev	5.816	.7616	.3609	.2464	.1252	3.43
%RSD	94.91	147.7	691.1	62.32	817.6	27.69

#1	11.67	.4883	.3336	.6394	.1504	14.91
#2	6.644	1.291	-.3547	.1466	-.0969	13.78
#3	.0713	-.2319	.1778	.4003	-.0076	8.482

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0051	.0849	.2629	.9050	19.97	26.01
Stddev	.0892	.1148	.3104	.6599	3.62	32.56
%RSD	1761.	135.2	118.0	72.91	18.13	125.2

#1	.0939	.1046	.5665	1.665	23.97	36.00
#2	-.0791	.1885	.2761	.5710	16.91	52.41
#3	-.0300	-.0385	-.0538	.4789	19.02	-10.37

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4372	.1916	1.584	.3113	.7204	.3583
Stddev	9.025	.2508	14.35	.3799	.3773	.9920
%RSD	2064.	130.9	905.8	122.0	52.37	276.9

#1	8.231	.4799	18.15	.7488	1.067	1.466
#2	.2384	.0235	-6.804	.1199	.3186	-.4486
#3	-9.781	.0714	-6.597	.0651	.7756	.0576

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 13:52:20 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3483	2.688	.0117	-1.019	1.859	.9099
Stddev	.4274	3.237	.2000	.016	.447	.2786
%RSD	122.7	120.4	1709.	1.562	24.02	30.62
#1	.4333	2.379	.0794	-1.023	2.198	1.221
#2	.7268	-.3831	-.2134	-1.001	1.353	.6833
#3	-.1152	6.068	.1691	-1.032	2.025	.8255

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1045	.2977	2.429	.8989
Stddev	.3468	.1986	1.614	3.317
%RSD	331.8	66.73	66.46	369.0
#1	.2546	.5256	4.253	-2.294
#2	-.1307	.1612	1.853	4.327
#3	-.4376	.2063	1.182	.6630

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7207.7	45064.	9294.4
Stddev	18.4	511.	90.8
%RSD	.25537	1.1333	.97710
#1	7227.2	45643.	9231.6
#2	7205.1	44871.	9398.5
#3	7190.6	44678.	9253.0

Sample Name: CCB Acquired: 5/31/2018 14:41:57 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.997	.9552	.2345	.4095	.0218	14.82
Stddev	8.138	.7257	.0452	.2969	.0665	7.32
%RSD	116.3	75.98	19.29	72.51	304.8	49.41

#1	1.793	.2300	.1962	.7524	.0984	21.15
#2	-14.27	.9540	.2228	.2415	-.0211	16.50
#3	-8.517	1.682	.2844	.2347	-.0118	6.802

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0597	-.0042	.6359	.5015	11.94	-15.84
Stddev	.0779	.2404	.2161	.4221	3.25	26.92
%RSD	130.4	5739.	33.98	84.18	27.23	169.9

#1	.0614	.1440	.8074	.9886	15.64	-7.730
#2	-.0190	-.2816	.3932	.2734	9.574	-45.88
#3	.1368	.1250	.7071	.2424	10.59	6.087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9491	.2437	7.771	.1476	-.3569	.4913
Stddev	8.629	.2472	11.65	.3875	.8259	.4593
%RSD	909.2	101.4	149.9	262.6	231.4	93.48

#1	6.780	.5169	21.19	.1525	-.3080	.1812
#2	.6315	.1784	.2242	-.2424	-1.206	1.019
#3	-10.26	.0357	1.901	.5325	.4434	.2738

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 14:41:57 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0854	2.415	.0480	-.9880	1.863	1.268
Stddev	2.623	1.095	.0672	.0449	.307	.432
%RSD	3070.	45.33	140.2	4.540	16.49	34.07
#1	1.882	1.513	.0203	-1.008	1.672	1.765
#2	-3.063	3.633	.1246	-.9367	1.700	.9836
#3	.9248	2.099	-.0011	-1.020	2.218	1.055

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1386	.2920	2.596	-16.80
Stddev	.4610	.1938	1.554	4.74
%RSD	332.6	66.38	59.87	28.22
#1	-.1907	.5113	4.279	-19.27
#2	.6655	.2211	2.290	-11.34
#3	-.0590	.1436	1.217	-19.80

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7224.3	45127.	9349.5
Stddev	58.6	353.	109.5
%RSD	.81117	.78298	1.1707
#1	7268.9	45089.	9256.1
#2	7245.9	45497.	9469.9
#3	7157.9	44794.	9322.4

Sample Name: 460-157010-a-23-a@4 Acquired: 5/31/2018 13:37:03 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42470.	44.29	-1.378	516.6	3.650	8339.
Stddev	329.	.90	.106	2.3	.124	73.
%RSD	.7756	2.027	7.693	.4545	3.408	.8774
#1	42730.	43.77	-1.485	514.4	3.731	8283.
#2	42100.	45.32	-1.273	516.4	3.714	8311.
#3	42570.	43.77	-1.377	519.1	3.507	8421.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.397	39.63	108.0	100.9	94320.	4030.
Stddev	.108	.50	.3	.5	499.	23.
%RSD	7.735	1.257	.2720	.5359	.5290	.5781
#1	-1.334	39.06	107.8	101.3	94070.	4056.
#2	-1.336	39.92	107.9	100.3	93990.	4012.
#3	-1.522	39.92	108.3	101.1	94890.	4022.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11570.	1025.	254.7	102.4	101.2	-3.998
Stddev	83.	7.	2.4	.3	1.0	1.788
%RSD	.7154	.6791	.9483	.2559	.9875	44.73
#1	11540.	1021.	253.7	102.6	100.3	-3.257
#2	11500.	1020.	257.5	102.6	101.0	-2.699
#3	11660.	1033.	253.0	102.1	102.3	-6.037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-23-a@4 Acquired: 5/31/2018 13:37:03 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.428	-3.754	133.7	504.5	18.17	1.436
Stddev	2.443	1.808	.6	3.0	.40	.335
%RSD	38.01	481.6	.4544	.5892	2.205	23.34
#1	-3.607	-7.330	133.7	502.1	18.25	1.765
#2	-7.832	1.585	133.2	503.5	18.52	1.446
#3	-7.845	-1.978	134.4	507.8	17.73	1.096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.907	84.91	578.6	823.7
Stddev	.284	.77	2.4	13.6
%RSD	9.765	.9060	.4069	1.653
#1	2.593	85.61	578.0	823.4
#2	2.983	84.09	576.6	810.2
#3	3.145	85.02	581.2	837.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7366.6	45947.	9385.1
Stddev	57.0	413.	131.7
%RSD	.77407	.89993	1.4033
#1	7302.7	45470.	9292.8
#2	7384.9	46169.	9326.7
#3	7412.2	46201.	9536.0

Sample Name: 460-157010-a-27-a@4 Acquired: 5/31/2018 14:04:07 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41050.	49.18	-1.829	498.4	7.974	5928.
Stddev	216.	.59	.150	4.0	.045	70.
%RSD	.5273	1.197	8.181	.7949	.5628	1.176
#1	40800.	48.71	-1.682	494.0	7.985	5875.
#2	41140.	49.84	-1.823	499.6	8.013	5901.
#3	41200.	49.00	-1.981	501.7	7.925	6007.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.348	53.68	111.8	109.2	166300.	2877.
Stddev	.482	.54	.8	1.0	1733.	17.
%RSD	20.51	1.008	.7501	.8881	1.042	.5887
#1	-2.142	53.22	111.7	109.8	165300.	2863.
#2	-2.003	53.55	111.0	108.0	165200.	2896.
#3	-2.898	54.27	112.7	109.6	168300.	2872.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11230.	2154.	417.9	125.5	116.3	-8.343
Stddev	156.	22.	3.8	1.6	1.4	.865
%RSD	1.393	1.035	.9090	1.244	1.207	10.37
#1	11140.	2143.	416.3	124.9	114.7	-8.136
#2	11140.	2140.	422.2	124.3	117.1	-7.600
#3	11410.	2180.	415.2	127.2	117.2	-9.292

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-157010-a-27-a@4 Acquired: 5/31/2018 14:04:07 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.706	-5.055	127.3	608.2	24.84	2.788
Stddev	2.890	.171	1.2	9.5	.54	.126
%RSD	43.09	3.379	.9322	1.570	2.182	4.508
#1	-6.874	-4.930	126.8	599.0	24.34	2.694
#2	-9.509	-5.250	126.4	607.5	24.76	2.739
#3	-3.737	-4.986	128.6	618.1	25.41	2.931

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.695	78.31	497.5	711.5
Stddev	.512	.29	3.7	17.4
%RSD	10.91	.3646	.7402	2.440
#1	4.555	78.06	497.1	728.0
#2	5.262	78.62	494.0	713.2
#3	4.267	78.26	501.3	693.4

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7355.9	46206.	9765.2
Stddev	10.5	296.	50.7
%RSD	.14219	.63962	.51894
#1	7344.5	45992.	9823.4
#2	7358.1	46543.	9731.1
#3	7365.0	46083.	9741.1

Sample Name: Z 460-157010-a-9-c Acquired: 5/31/2018 12:27:51 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 13560.	s 86.68	k -.4143	s 156.5	k 1.656	4587.
Stddev	12110.	83.52	.1932	145.8	1.401	3555.
%RSD	89.36	96.36	46.63	93.18	84.63	77.50

#1	-.50	86.58	-.2667	156.3	.0493	541.6
#2	17350.	170.2	-.3433	302.4	2.292	6008.
#3	k 23320.	s 3.205	k -.6330	s 10.75	k 2.627	7213.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	s 1.997	s 20.55	k 45.16	k 48.49	k 49950.	k 1499.
Stddev	2.736	18.81	36.45	43.15	40280.	1322.
%RSD	137.0	91.53	80.72	88.98	80.63	88.19

#1	5.154	21.18	3.718	-.3934	4261.	9.721
#2	.3208	39.05	59.49	64.60	65270.	1953.
#3	s .5162	s 1.436	k 72.27	k 81.28	k 80320.	k 2533.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 6132.	k 488.9	k 310.4	s 136.8	s 42.57	s .4133
Stddev	4915.	393.8	289.8	126.0	40.12	1.375
%RSD	80.15	80.56	93.38	92.14	94.24	332.6

#1	544.6	41.87	-10.90	138.8	43.89	1.955
#2	8065.	640.0	389.8	261.8	82.00	-.0288
#3	k 9786.	k 784.8	k 552.1	s 9.781	s 1.805	s -.6862

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Z 460-157010-a-9-c Acquired: 5/31/2018 12:27:51 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	s -4.130	s 3.556	k 45.65	s 156.8	s 2.051	s .7338
Stddev	2.515	.530	36.54	141.7	13.12	.9404
%RSD	60.89	14.90	80.03	90.31	639.8	128.2

#1	-6.692	3.961	3.730	164.9	-3.805	.8300
#2	-1.665	3.750	62.52	294.3	17.08	1.622
#3	s -4.032	s 2.956	k 70.71	s 11.34	s -7.121	s -.2510

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	s 2.333	k 39.92	k 482.5	s 199.1
Stddev	2.376	35.90	392.0	548.2
%RSD	101.9	89.92	81.23	275.4

#1	2.504	-.0640	39.24	-422.9
#2	4.619	50.45	625.1	407.7
#3	s -.1245	k 69.37	k 783.3	s 612.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	^ *****	77120.	16023.
Stddev	-----	40599.	7564.
%RSD	-----	52.644	47.209

#1	12944.	123660.	24673.
#2	8756.1	58697.	12741.
#3	^ -----	48998.	10653.

Sample Name: 460-157010-a-19-a@4 Acquired: 5/31/2018 13:21:36 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32050.	174.1	.2323	1318.	6.415	5994.
Stddev	89.	2.4	.0688	11.	.051	57.
%RSD	.2784	1.391	29.62	.8681	.7888	.9562
#1	32150.	176.9	.2100	1330.	6.380	6057.
#2	31980.	173.4	.3095	1314.	6.391	5945.
#3	32020.	172.2	.1774	1308.	6.473	5982.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.330	95.59	72.32	1062.	194900.	1876.
Stddev	.360	1.46	.85	15.	2722.	5.
%RSD	10.80	1.531	1.170	1.441	1.397	.2656
#1	3.252	97.21	73.29	1077.	198000.	1876.
#2	3.723	95.19	71.84	1060.	193400.	1881.
#3	3.016	94.36	71.82	1047.	193300.	1871.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7681.	F 14760.	817.2	832.8	102.5	-18.93
Stddev	132.	188.	5.7	12.3	.3	.53
%RSD	1.714	1.272	.7000	1.474	.2475	2.813
#1	7833.	14970.	813.3	846.7	102.8	-19.40
#2	7611.	14590.	823.7	828.3	102.3	-18.35
#3	7600.	14730.	814.4	823.4	102.6	-19.04

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.				
Low Limit		-15.00				

Sample Name: 460-157010-a-19-a@4 Acquired: 5/31/2018 13:21:36 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -10.11	-1.804	152.5	590.4	27.06	11.81
Stddev	1.34	.220	2.0	5.5	.97	.10
%RSD	13.24	12.17	1.338	.9324	3.577	.8691
#1	-8.764	-1.796	154.8	596.7	28.18	11.87
#2	-10.14	-2.027	151.5	586.2	26.43	11.87
#3	-11.44	-1.588	151.2	588.5	26.57	11.69
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	5000.					
Low Limit	-10.00					

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.540	61.98	490.3	760.2
Stddev	.558	.45	6.9	6.3
%RSD	10.07	.7316	1.415	.8348
#1	6.127	62.32	498.1	766.7
#2	5.018	62.17	487.7	760.0
#3	5.474	61.47	485.0	754.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7316.9	45878.	9689.5
Stddev	118.2	964.	141.9
%RSD	1.6153	2.1002	1.4644
#1	7180.5	44770.	9626.1
#2	7380.0	46351.	9852.0
#3	7390.1	46514.	9590.4

Sample Name: 460-157010-a-10-a@4 Acquired: 5/31/2018 12:35:36 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39180.	54.86	4.496	546.5	4.215	6687.
Stddev	174.	1.24	.249	2.4	.085	12.
%RSD	.4451	2.259	5.544	.4481	2.013	.1849
#1	39150.	56.27	4.775	549.2	4.123	6675.
#2	39370.	54.39	4.418	544.5	4.290	6700.
#3	39020.	53.93	4.295	545.9	4.232	6687.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9173	31.23	98.64	281.6	68840.	3000.
Stddev	.1458	.29	.20	2.7	113.	42.
%RSD	15.89	.9329	.2047	.9534	.1643	1.400
#1	1.026	30.98	98.75	284.6	68880.	3048.
#2	.9746	31.16	98.40	279.6	68930.	2986.
#3	.7516	31.55	98.76	280.4	68710.	2967.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9826.	862.5	423.6	169.0	775.3	-1.209
Stddev	34.	2.1	4.7	2.0	5.8	.610
%RSD	.3423	.2484	1.117	1.178	.7520	50.46
#1	9838.	864.6	418.8	167.6	773.1	-.7556
#2	9852.	862.3	428.3	168.2	770.8	-.9681
#3	9788.	860.4	423.7	171.3	781.9	-1.902

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-10-a@4 Acquired: 5/31/2018 12:35:36 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.587	.0233	134.5	847.7	21.19	2.209
Stddev	3.981	1.693	.8	4.4	.97	.074
%RSD	250.8	7266.	.6015	.5184	4.592	3.333
#1	.5370	-1.687	135.4	849.8	20.47	2.278
#2	.8810	1.699	133.8	842.6	20.81	2.217
#3	-6.180	.0584	134.5	850.7	22.30	2.131

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.50	72.43	624.2	898.0
Stddev	1.72	.33	2.3	13.4
%RSD	3.276	.4558	.3759	1.492
#1	52.01	72.58	626.7	912.6
#2	51.08	72.65	623.8	886.4
#3	54.41	72.05	622.0	894.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7267.4	45217.	9578.4
Stddev	79.8	447.	61.4
%RSD	1.0982	.98857	.64092
#1	7175.3	44723.	9592.9
#2	7311.8	45338.	9511.1
#3	7315.2	45592.	9631.2

Sample Name: lcssrm 460-523662/2- Acquired: 5/31/2018 12:24:10 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38220.	283.5	246.5	992.2	294.0	22130.
Stddev	177.	1.4	1.9	4.5	1.2	219.
%RSD	.4632	.5039	.7833	.4504	.4034	.9907

#1	38380.	285.1	244.8	992.8	295.2	21890.
#2	38030.	283.1	246.0	996.3	292.9	22180.
#3	38250.	282.4	248.6	987.5	293.7	22310.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1268.	236.8	326.2	559.8	68130.	8836.
Stddev	3.	2.1	2.4	2.2	409.	58.
%RSD	.2092	.8811	.7304	.3999	.6000	.6608

#1	1266.	237.5	323.5	561.8	67740.	8841.
#2	1271.	238.5	327.4	557.4	68100.	8775.
#3	1268.	234.5	327.8	560.3	68560.	8892.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10310.	1206.	11380.	791.5	872.5	315.6
Stddev	69.	6.	66.	7.5	4.5	1.6
%RSD	.6704	.5351	.5772	.9466	.5149	.4945

#1	10240.	1201.	11450.	795.2	873.7	316.5
#2	10320.	1204.	11320.	796.4	876.3	316.4
#3	10370.	1213.	11380.	782.8	867.5	313.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcssrm 460-523662/2- Acquired: 5/31/2018 12:24:10 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	717.5	1054.	624.6	625.5	602.0	390.1
Stddev	3.5	5.	3.1	4.6	2.3	2.3
%RSD	.4931	.4938	.4893	.7424	.3779	.5767
#1	721.0	1054.	622.4	620.4	604.6	390.3
#2	713.9	1059.	623.3	629.5	600.4	392.2
#3	717.8	1049.	628.1	626.5	601.0	387.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	725.2	472.9	3411.	678.1
Stddev	4.3	3.7	10.	27.6
%RSD	.5910	.7905	.2897	4.065
#1	723.1	476.8	3411.	709.3
#2	730.2	469.3	3401.	657.1
#3	722.4	472.6	3420.	667.8

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7142.0	44738.	9422.0
Stddev	47.4	371.	62.8
%RSD	.66417	.82861	.66662
#1	7093.4	44464.	9486.7
#2	7188.2	45159.	9418.0
#3	7144.5	44589.	9361.3

Sample Name: mb 460-523662/1-a@2 Acquired: 5/31/2018 12:20:10 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.619	.2129	.2854	-.0660	-.0213	6.036
Stddev	4.745	1.733	.1694	.1029	.0662	5.440
%RSD	62.28	814.0	59.37	155.9	311.0	90.12
#1	-5.708	-1.556	.3454	-.0249	-.0758	1.105
#2	-13.02	.2862	.0941	.0100	.0524	11.87
#3	-4.128	1.908	.4166	-.1831	-.0405	5.132

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0275	-.1598	.1109	.3878	2.769	-5.516
Stddev	.0683	.0014	.3575	.3057	11.10	6.849
%RSD	248.2	.8755	322.5	78.84	400.9	124.2
#1	-.0246	-.1597	-.2626	.0774	-7.637	-7.845
#2	.1049	-.1584	.4499	.6886	1.492	-10.90
#3	.0023	-.1612	.1453	.3973	14.45	2.194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.753	-.0190	2.626	.6696	-1.018	.7024
Stddev	2.373	.0123	10.70	.6012	1.072	.1640
%RSD	35.13	64.70	407.6	89.79	105.3	23.34
#1	-4.050	-.0267	-2.434	.4825	-.2394	.8684
#2	-7.718	-.0048	14.92	1.342	-2.241	.6984
#3	-8.491	-.0255	-4.607	.1841	-.5739	.5405

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-523662/1-a@2 Acquired: 5/31/2018 12:20:10 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.484	1.903	-1.1634	-1.070	.5065	-.2946
Stddev	1.284	1.822	.0570	.050	.4132	.1816
%RSD	36.84	95.76	34.89	4.700	81.58	61.65
#1	-3.062	.0286	-.1789	-1.012	.8173	-.0849
#2	-2.464	2.012	-.2110	-1.095	.6645	-.3984
#3	-4.925	3.668	-.1002	-1.103	.0376	-.4006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0835	.0884	.1989	-8.021
Stddev	.5197	.0620	.0163	9.720
%RSD	622.1	70.15	8.175	121.2
#1	.3578	.0532	.2013	-4.231
#2	-.6563	.1600	.2139	-19.07
#3	.0479	.0520	.1816	-.7671

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7102.6	43899.	9143.5
Stddev	3.6	195.	79.2
%RSD	.05130	.44366	.86587
#1	7099.5	44123.	9057.9
#2	7101.8	43799.	9214.2
#3	7106.6	43775.	9158.4

Sample Name: CCVL Acquired: 5/31/2018 13:06:12 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	178.4	14.28	8.370	191.4	1.797	4426.
Stddev	9.5	1.15	.420	.7	.073	17.
%RSD	5.331	8.048	5.021	.3568	4.076	.3732

#1	168.9	14.67	7.978	191.0	1.837	4442.
#2	187.9	12.99	8.814	190.9	1.840	4409.
#3	178.3	15.19	8.317	192.2	1.712	4428.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.796	47.73	9.527	22.38	162.8	4075.
Stddev	.172	.20	.004	.55	9.9	51.
%RSD	4.518	.4126	.0451	2.453	6.114	1.242

#1	3.961	47.88	9.527	22.86	170.5	4107.
#2	3.618	47.51	9.522	21.78	151.5	4101.
#3	3.808	47.80	9.531	22.49	166.2	4016.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4407.	14.78	4145.	39.26	9.571	18.04
Stddev	81.	.16	18.	.47	.541	1.94
%RSD	1.837	1.109	.4386	1.189	5.649	10.78

#1	4452.	14.88	4166.	39.51	10.17	18.20
#2	4313.	14.59	4135.	39.54	9.121	16.02
#3	4454.	14.87	4134.	38.72	9.422	19.90

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 13:06:12 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.63	23.64	45.84	28.66	44.77	18.38
Stddev	.74	1.03	.81	.05	.58	.15
%RSD	4.434	4.369	1.762	.1909	1.298	.8140
#1	15.85	23.22	45.97	28.63	45.35	18.46
#2	17.31	24.81	44.97	28.62	44.77	18.48
#3	16.73	22.87	46.57	28.72	44.19	18.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	46.56	17.69	19.67	F -4.132
Stddev	.10	.23	.31	8.433
%RSD	.2100	1.319	1.567	204.1
#1	46.66	17.80	19.85	-7.111
#2	46.55	17.85	19.31	5.386
#3	46.47	17.42	19.83	-10.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7077.7	43719.	9185.2
Stddev	20.4	252.	71.4
%RSD	.28793	.57661	.77777
#1	7055.1	43445.	9182.4
#2	7094.8	43941.	9258.0
#3	7083.1	43771.	9115.2

Sample Name: mb 460-523912/1-a@2 Acquired: 5/31/2018 14:49:54 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.940	-2.174	.0587	.0629	.0245	2.889
Stddev	5.725	.5217	.2099	.0149	.0643	.742
%RSD	1948.	240.0	357.9	23.75	261.9	25.70
#1	-2.011	-8.070	.2974	.0517	.0689	2.315
#2	-4.965	-.0300	-.0247	.0799	.0539	3.727
#3	6.093	.1847	-.0968	.0572	-.0492	2.624

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0748	-.1568	.1576	.0518	-5.449	10.38
Stddev	.1166	.0297	.6196	.3150	2.239	43.70
%RSD	156.0	18.97	393.0	607.8	41.09	421.1
#1	.0712	-.1870	.8488	-.2308	-4.215	52.11
#2	.1931	-.1557	-.3480	.3915	-8.033	14.08
#3	-.0401	-.1275	-.0279	-.0053	-4.098	-35.05

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.505	.0511	-2.365	.0453	-.9065	-.6745
Stddev	2.701	.0234	3.065	.5129	1.132	.7865
%RSD	107.8	45.77	129.6	1131.	124.9	116.6
#1	-4.298	.0715	-3.904	.2324	.0888	.1410
#2	.6016	.0255	1.165	.4384	-.6707	-.7363
#3	-3.819	.0563	-4.354	-.5348	-2.138	-1.428

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-523912/1-a@2 Acquired: 5/31/2018 14:49:54 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9782	2.023	-.3529	-1.145	.9727	-.0383
Stddev	2.832	1.823	.4854	.110	.5821	.2603
%RSD	289.5	90.11	137.5	9.578	59.84	680.1
#1	.2574	3.177	.1739	-1.115	.4442	-.1217
#2	-4.218	-.0786	-.7821	-1.055	.8773	.2535
#3	1.026	2.970	-.4505	-1.267	1.597	-.2467

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0794	.0437	.1455	-10.95
Stddev	.1945	.0302	.1081	11.39
%RSD	245.0	69.15	74.25	104.0
#1	-.2951	.0301	.2666	-22.03
#2	.0827	.0783	.1109	-11.54
#3	-.0258	.0226	.0590	.7239

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7225.0	45352.	9248.9
Stddev	113.8	709.	224.3
%RSD	1.5744	1.5634	2.4255
#1	7354.2	45821.	9341.1
#2	7181.0	45700.	9412.4
#3	7139.9	44537.	8993.2

Sample Name: CCVL Acquired: 5/31/2018 14:45:57 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	172.6	13.45	8.140	189.5	1.732	4384.
Stddev	15.1	2.40	.231	.6	.036	37.
%RSD	8.733	17.81	2.840	.3236	2.102	.8352

#1	168.1	14.38	8.058	189.8	1.700	4343.
#2	189.4	15.24	7.961	188.8	1.772	4411.
#3	160.2	10.73	8.401	189.9	1.725	4400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.668	46.77	9.178	21.74	163.8	4075.
Stddev	.118	.37	.212	.67	6.6	55.
%RSD	3.231	.8010	2.314	3.062	4.049	1.349

#1	3.660	46.86	9.210	21.29	157.6	4013.
#2	3.554	46.36	9.372	21.41	163.0	4095.
#3	3.791	47.10	8.951	22.50	170.8	4117.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4300.	14.43	4144.	38.85	9.784	17.49
Stddev	96.	.22	39.	.28	.285	.63
%RSD	2.225	1.514	.9502	.7124	2.913	3.617

#1	4190.	14.18	4107.	39.17	9.969	17.77
#2	4342.	14.56	4185.	38.67	9.455	17.93
#3	4367.	14.56	4140.	38.72	9.926	16.77

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 14:45:57 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.18	23.09	44.88	28.30	43.82	18.07
Stddev	2.04	2.31	.75	.05	.35	.19
%RSD	11.90	10.01	1.680	.1674	.8063	1.027

#1	19.48	25.74	44.09	28.34	43.43	17.91
#2	15.57	21.57	44.96	28.25	43.90	18.28
#3	16.49	21.94	45.59	28.30	44.12	18.02

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.43	17.32	19.10	F -39.22
Stddev	.27	.31	.35	6.70
%RSD	.6042	1.803	1.820	17.08

#1	45.21	17.00	18.71	-40.67
#2	45.74	17.62	19.36	-31.92
#3	45.35	17.34	19.23	-45.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7297.8	45485.	9157.7
Stddev	42.5	482.	75.7
%RSD	.58272	1.0588	.82670

#1	7305.3	45996.	9239.0
#2	7336.0	45039.	9144.9
#3	7252.0	45418.	9089.3

Sample Name: 460-157010-a-17-a@4 Acquired: 5/31/2018 13:13:57 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28290.	206.5	-2027	451.8	3.578	13180.
Stddev	223.	4.9	.3830	3.6	.017	171.
%RSD	.7887	2.394	188.9	.7866	.4639	1.295
#1	28270.	211.4	.1076	455.1	3.589	13360.
#2	28520.	206.6	-.0850	452.2	3.559	13180.
#3	28070.	201.5	-.6308	448.1	3.586	13010.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.930	56.18	80.72	350.8	70800.	1739.
Stddev	.063	.78	.86	3.4	857.	10.
%RSD	2.144	1.389	1.063	.9598	1.211	.5642
#1	2.936	56.85	81.55	354.5	71670.	1749.
#2	2.864	56.36	80.77	350.1	70770.	1740.
#3	2.989	55.32	79.84	347.9	69960.	1729.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8243.	1632.	1252.	1422.	177.6	-2.436
Stddev	123.	20.	7.	15.	.7	1.009
%RSD	1.486	1.223	.5604	1.039	.4222	41.41
#1	8377.	1654.	1244.	1434.	178.2	-3.574
#2	8213.	1630.	1258.	1427.	176.8	-2.085
#3	8137.	1614.	1253.	1405.	177.8	-1.650

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-157010-a-17-a@4 Acquired: 5/31/2018 13:13:57 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.836	-8424	120.5	780.9	37.99	5.888
Stddev	1.386	2.281	1.8	5.2	.97	.201
%RSD	48.87	270.7	1.466	.6718	2.563	3.405
#1	-1.430	1.286	122.4	785.6	38.43	5.834
#2	-2.878	-.5629	120.1	782.0	38.66	6.110
#3	-4.201	-3.250	118.9	775.2	36.87	5.721

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.38	116.7	1067.	852.8
Stddev	.54	.6	12.	6.7
%RSD	4.701	.5134	1.118	.7829
#1	11.26	116.6	1080.	855.0
#2	11.97	117.4	1066.	845.3
#3	10.92	116.2	1056.	858.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7154.2	44987.	9479.5
Stddev	110.1	969.	80.4
%RSD	1.5395	2.1533	.84789
#1	7044.2	43967.	9454.4
#2	7154.1	45099.	9414.7
#3	7264.4	45895.	9569.5

Sample Name: CCV Acquired: 5/31/2018 12:58:29 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120900.	2444.	1202.	10060.	971.0	122200.
Stddev	223.	29.	5.	85.	3.4	79.
%RSD	.1844	1.185	.4217	.8432	.3486	.0643

#1	121100.	2416.	1201.	9993.	974.9	122200.
#2	120700.	2441.	1198.	10020.	969.3	122100.
#3	120900.	2474.	1208.	10150.	968.9	122200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1239.	2498.	4928.	12180.	98370.	47650.
Stddev	12.	24.	12.	34.	92.	88.
%RSD	.9305	.9701	.2341	.2802	.0935	.1852

#1	1230.	2478.	4918.	12170.	98290.	47720.
#2	1234.	2490.	4925.	12150.	98350.	47550.
#3	1252.	2525.	4941.	12210.	98470.	47680.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121300.	5055.	122000.	2517.	7489.	967.0
Stddev	194.	12.	206.	25.	71.	10.5
%RSD	.1598	.2413	.1686	.9828	.9427	1.082

#1	121200.	5046.	122200.	2500.	7437.	958.8
#2	121200.	5052.	121800.	2505.	7460.	963.5
#3	121500.	5069.	121900.	2545.	7569.	978.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 12:58:29 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2440.	2524.	2452.	2507.	973.8	2453.
Stddev	31.	23.	7.	17.	13.3	24.
%RSD	1.255	.9261	.2784	.6722	1.361	.9709

#1	2412.	2507.	2446.	2497.	961.6	2434.
#2	2436.	2514.	2450.	2498.	971.8	2446.
#3	2473.	2551.	2459.	2527.	987.9	2480.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	997.8	4884.	9927.	9482.
Stddev	8.6	17.	60.	192.
%RSD	.8615	.3527	.6058	2.021

#1	991.6	4885.	9905.	9331.
#2	994.2	4867.	9880.	9418.
#3	1008.	4901.	9995.	9698.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6707.2	41664.	8942.5
Stddev	80.5	164.	73.9
%RSD	1.2007	.39352	.82645

#1	6780.3	41800.	8899.3
#2	6720.3	41711.	8900.4
#3	6620.9	41482.	9027.8

Sample Name: CCB Acquired: 5/31/2018 13:02:12 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.797	.2492	.0907	.3294	.0815	8.021
Stddev	6.620	1.314	.3643	.2505	.0559	2.544
%RSD	368.4	527.1	401.7	76.04	68.60	31.71

#1	9.409	1.184	.0706	.5893	.1437	10.27
#2	-1.395	-1.253	-.2632	.3095	.0658	5.262
#3	-2.623	.8166	.4647	.0895	.0352	8.527

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0315	.0154	.6759	.8531	12.00	9.040
Stddev	.0567	.1304	.3482	.4734	13.32	29.85
%RSD	180.0	847.3	51.52	55.50	111.0	330.1

#1	.0251	-.0463	.9669	1.385	21.04	37.59
#2	.0911	.1652	.2901	.4785	18.24	11.47
#3	-.0217	-.0727	.7707	.6955	-3.295	-21.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.284	.3239	13.26	-.2686	.3816	1.440
Stddev	4.036	.2775	17.31	.4847	.0763	1.602
%RSD	94.22	85.66	130.5	180.5	20.00	111.2

#1	-.8858	.6376	33.24	.2235	.4562	3.158
#2	-8.745	.2234	2.750	-.7455	.3850	1.175
#3	-3.221	.1108	3.805	-.2837	.3037	-.0121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 13:02:12 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.044	1.506	.2222	-8423	1.889	1.146
Stddev	1.336	2.892	.1453	.1025	.436	.563
%RSD	128.0	192.1	65.39	12.16	23.10	49.12
#1	.4370	1.359	.3408	-.8735	2.330	1.668
#2	-1.409	4.469	.2655	-.9256	1.879	1.220
#3	-2.159	-1.310	.0601	-.7279	1.457	.5497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2806	.3613	2.650	6.889
Stddev	.1053	.3233	1.527	8.339
%RSD	37.54	89.48	57.60	121.0
#1	-.2045	.7342	4.360	6.188
#2	-.2364	.1887	2.166	15.56
#3	-.4008	.1609	1.424	-1.076

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7220.9	45020.	9232.3
Stddev	42.3	419.	48.4
%RSD	.58603	.92961	.52433
#1	7259.8	45425.	9178.5
#2	7175.9	44589.	9272.4
#3	7227.1	45047.	9246.1

Sample Name: 460-156806-j-1-b.ms Acquired: 5/31/2018 15:05:08 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3178.	1933.	45.98	2194.	47.04	47240.
Stddev	35.	13.	.71	18.	.18	520.
%RSD	1.097	.6874	1.534	.8011	.3896	1.100

#1	3160.	1920.	45.45	2176.	46.95	46650.
#2	3218.	1947.	45.71	2211.	47.25	47420.
#3	3156.	1931.	46.78	2196.	46.93	47640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.32	512.9	201.9	240.4	2148.	48860.
Stddev	.32	4.1	2.9	2.9	15.	311.
%RSD	.6290	.7986	1.432	1.217	.7120	.6366

#1	49.96	508.2	198.6	237.0	2130.	48610.
#2	50.54	516.1	203.5	242.0	2159.	49210.
#3	50.47	514.3	203.7	242.1	2153.	48760.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66720.	613.2	100500.	504.6	506.1	484.8
Stddev	666.	6.9	564.	4.5	4.2	4.0
%RSD	.9977	1.122	.5608	.8999	.8215	.8186

#1	65950.	605.5	100000.	499.8	501.5	481.5
#2	67090.	615.6	101100.	508.9	509.4	489.2
#3	67120.	618.6	100300.	505.0	507.4	483.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156806-j-1-b.ms Acquired: 5/31/2018 15:05:08 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1948.	2124.	500.4	523.1	683.8	504.9
Stddev	20.	18.	3.4	7.5	6.7	5.7
%RSD	1.002	.8405	.6883	1.433	.9800	1.138
#1	1930.	2108.	496.4	514.6	678.5	499.9
#2	1969.	2144.	502.8	528.8	691.4	511.1
#3	1945.	2121.	501.9	525.8	681.7	503.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	506.7	822.1	536.3	6014.
Stddev	3.8	5.3	4.0	43.
%RSD	.7572	.6468	.7392	.7147
#1	503.5	817.1	531.7	6002.
#2	510.9	827.7	539.0	6062.
#3	505.6	821.6	538.1	5978.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6891.4	43183.	9279.8
Stddev	47.7	384.	39.3
%RSD	.69247	.89024	.42321
#1	6945.4	43620.	9324.4
#2	6854.7	43033.	9264.4
#3	6874.3	42896.	9250.5

Sample Name: 460-157010-a-18-a@4 Acquired: 5/31/2018 13:17:47 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36490.	623.8	-8033	364.2	3.943	5595.
Stddev	118.	2.5	.3128	3.0	.065	42.
%RSD	.3221	.3989	38.94	.8329	1.657	.7427
#1	36360.	626.7	-.5215	367.7	4.015	5561.
#2	36590.	622.3	-1.140	362.3	3.924	5641.
#3	36510.	622.5	-.7485	362.5	3.889	5584.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9319	80.62	95.76	192.3	118300.	2747.
Stddev	.3229	.57	1.11	1.5	883.	21.
%RSD	34.65	.7097	1.158	.7759	.7467	.7530
#1	-.6234	81.28	95.26	191.5	117700.	2764.
#2	-1.268	80.27	97.04	194.1	119300.	2751.
#3	-.9048	80.30	95.00	191.5	117900.	2724.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7442.	1079.	490.1	433.5	175.6	-1.562
Stddev	64.	8.	2.2	4.1	.9	2.149
%RSD	.8563	.7698	.4448	.9392	.5239	137.6
#1	7414.	1072.	491.2	438.2	176.4	-3.563
#2	7515.	1088.	491.5	431.1	175.8	-1.832
#3	7397.	1077.	487.6	431.2	174.6	.7092

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-18-a@4 Acquired: 5/31/2018 13:17:47 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.590	-9238	123.4	374.9	28.28	3.286
Stddev	2.874	1.931	.9	3.5	.55	.301
%RSD	180.8	209.0	.7270	.9398	1.937	9.171
#1	-2.552	1.289	122.4	374.1	28.30	2.983
#2	1.642	-2.265	124.2	378.8	28.81	3.586
#3	-3.860	-1.796	123.6	371.9	27.72	3.288

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.09	71.01	884.8	807.1
Stddev	.20	.20	5.7	11.2
%RSD	1.523	.2788	.6440	1.383
#1	12.86	71.22	880.9	796.6
#2	13.19	70.82	891.4	818.8
#3	13.22	71.00	882.2	805.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7293.2	45791.	9503.8
Stddev	21.8	198.	60.6
%RSD	.29907	.43257	.63727
#1	7268.2	45902.	9444.0
#2	7303.1	45563.	9502.1
#3	7308.3	45909.	9565.1

Sample Name: 460-156806-j-1-a Acquired: 5/31/2018 15:12:39 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1225.	.9393	.3139	142.2	.0789	28270.
Stddev	18.	1.066	.3306	1.1	.0587	37.
%RSD	1.503	113.5	105.3	.7965	74.42	.1316

#1	1209.	.6964	.1553	141.3	.0880	28270.
#2	1246.	2.106	.0924	143.5	.1326	28310.
#3	1221.	.0155	.6939	141.8	.0162	28230.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1488	-.0463	2.715	1.789	1221.	30540.
Stddev	.0584	.1002	.362	.457	24.	318.
%RSD	39.27	216.7	13.33	25.56	1.978	1.040

#1	.1729	.0664	2.965	1.976	1225.	30370.
#2	.0822	-.0795	2.879	2.122	1244.	30910.
#3	.1914	-.1257	2.299	1.267	1196.	30350.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47510.	108.2	81560.	2.378	-1.612	-.5920
Stddev	86.	1.7	695.	.337	.089	.2932
%RSD	.1808	1.582	.8523	14.19	5.520	49.53

#1	47570.	107.2	81010.	2.420	-1.604	-.5078
#2	47550.	110.2	82340.	2.022	-1.705	-.3500
#3	47410.	107.2	81330.	2.692	-1.527	-.9181

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156806-j-1-a Acquired: 5/31/2018 15:12:39 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0699	1.126	6.182	2.218	200.2	.0792
Stddev	3.116	2.042	.110	.063	2.7	.4011
%RSD	4459.	181.4	1.777	2.817	1.334	506.2
#1	-2.687	.9382	6.246	2.243	197.5	.4623
#2	-.9000	-.8157	6.055	2.264	202.8	.1132
#3	3.377	3.256	6.245	2.147	200.5	-.3377

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2953	348.5	33.28	5913.
Stddev	.4745	3.1	.45	61.
%RSD	160.7	.8911	1.356	1.024
#1	-.8417	346.4	33.05	5851.
#2	-.0576	352.0	33.80	5918.
#3	.0133	346.9	32.98	5972.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6979.9	43663.	9284.4
Stddev	29.0	306.	112.2
%RSD	.41576	.70165	1.2089
#1	6955.5	43339.	9246.5
#2	6972.2	43704.	9195.9
#3	7012.0	43947.	9410.6

Sample Name: Z 460-523780/2-a Acquired: 5/31/2018 15:24:24 Type: QC

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 1205.	F 1552.	F 30.49	^F *****	F 30.58	F 12710.
Stddev	1058.	564.	26.44	-----	26.42	10870.
%RSD	87.78	36.30	86.71	-----	86.39	85.52

#1	-16.21	902.4	-.0361	^ -----	.0976	158.3
#2	1795.	1905.	45.75	2083.	44.79	18950.
#3	1836.	1850.	45.75	2031.	46.86	19030.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	2000.	2000.	50.00	2000.	50.00	20000.
Range	-20.00%	-20.00%	-20.00%	-20.00%	-20.00%	-20.00%

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.04	428.4	F 134.0	F 157.6	F 658.0	F 11660.
Stddev	14.76	152.2	116.2	139.2	570.1	10140.
%RSD	35.11	35.53	86.69	88.33	86.63	86.95

#1	25.00	252.8	-.1384	-3.141	-.2214	-41.14
#2	50.95	522.5	201.5	238.7	982.1	17210.
#3	50.17	509.8	200.8	237.1	992.1	17800.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value			200.0	250.0	1000.	20000.
Range			-20.00%	-20.00%	-20.00%	-20.00%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 12310.	F 340.3	F 12190.	423.6	427.7	F 392.0
Stddev	10660.	294.7	10560.	150.2	153.8	142.9
%RSD	86.56	86.59	86.65	35.46	35.96	36.46

#1	5.82	.0319	.85	250.3	250.2	227.1
#2	18450.	509.9	17930.	516.3	521.6	480.6
#3	18480.	511.0	18640.	504.1	511.4	468.3

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail
Value	20000.	500.0	20000.			500.0
Range	-20.00%	-20.00%	-20.00%			-20.00%

Sample Name: Z 460-523780/2-a Acquired: 5/31/2018 15:24:24 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 1569.	1808.	F 330.7	431.9	407.8	413.8
Stddev	581.	667.	286.6	150.6	157.5	153.3
%RSD	37.02	36.91	86.67	34.87	38.62	37.04

#1	898.9	1038.	-.2654	258.1	226.1	236.9
#2	1926.	2225.	496.8	524.3	504.8	508.7
#3	1883.	2160.	495.5	513.3	492.4	495.7

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
Value	2000.		500.0			
Range	-20.00%		-20.00%			

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	421.9	F 309.9	F 333.4	40.25
Stddev	152.6	268.6	288.9	388.3
%RSD	36.17	86.68	86.65	964.8

#1	245.9	-.0708	-.1646	-408.1
#2	516.7	455.1	501.5	268.6
#3	503.2	474.5	499.0	260.3

Check ?	Chk Pass	Chk Fail	Chk Fail	None
Value		500.0	500.0	
Range		-20.00%	-20.00%	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	8366.1	88333.	13538.
Stddev	2173.9	75755.	6935.
%RSD	25.985	85.761	51.229

#1	10876.	175810.	21543.
#2	7092.1	44769.	9716.7
#3	7129.9	44422.	9353.6

Sample Name: 460-156697-j-2-a Acquired: 5/31/2018 15:43:51 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	576.3	-9053	-4106	106.5	.0294	34210.
Stddev	3.9	1.651	.5238	.5	.0719	316.
%RSD	.6801	182.3	127.6	.4770	244.3	.9243

#1	580.1	-2.805	-.3089	106.4	.0905	34280.
#2	576.4	-.0972	.0549	107.0	-.0498	34480.
#3	572.3	.1856	-.9778	106.0	.0475	33860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0370	.1593	1.483	2.977	1062.	25850.
Stddev	.0581	.3269	.138	.201	10.	201.
%RSD	157.1	205.3	9.308	6.762	.9721	.7759

#1	-.0172	.5257	1.373	2.827	1050.	25650.
#2	-.1023	.0548	1.439	3.206	1069.	25850.
#3	.0086	-.1027	1.638	2.900	1068.	26050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42090.	259.7	79330.	1.645	5.939	-.0831
Stddev	493.	2.8	692.	.594	.340	.5915
%RSD	1.171	1.091	.8716	36.11	5.730	711.4

#1	42140.	259.8	78750.	1.988	6.293	-.2257
#2	42560.	262.4	79160.	.9589	5.615	.5666
#3	41580.	256.8	80100.	1.986	5.907	-.5904

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156697-j-2-a Acquired: 5/31/2018 15:43:51 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2312	2.870	5.735	7.187	177.4	.3156
Stddev	1.210	1.507	.291	.183	2.6	.1119
%RSD	523.5	52.51	5.082	2.539	1.482	35.47
#1	-.6707	1.136	5.950	7.022	176.0	.3505
#2	-1.160	3.861	5.853	7.156	180.5	.4060
#3	1.138	3.613	5.403	7.383	175.8	.1904

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3730	401.6	25.68	9558.
Stddev	.3743	3.0	.71	125.
%RSD	100.4	.7579	2.783	1.312
#1	.1173	398.1	26.12	9461.
#2	.8026	402.7	26.07	9699.
#3	.1990	403.9	24.85	9512.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6947.0	43266.	9089.5
Stddev	55.3	671.	72.5
%RSD	.79650	1.5501	.79815
#1	6916.9	43182.	9050.3
#2	6913.1	42642.	9173.2
#3	7010.8	43975.	9045.0

Sample Name: 460-157010-e-21-a@4 Acquired: 5/31/2018 13:29:24 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29540.	141.3	-6814	171.5	3.401	1633.
Stddev	258.	2.3	.2338	1.5	.064	15.
%RSD	.8729	1.602	34.31	.8863	1.878	.8943
#1	29750.	142.2	-.6385	172.7	3.468	1636.
#2	29610.	142.9	-.4720	172.1	3.341	1646.
#3	29250.	138.7	-.9337	169.8	3.394	1618.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8192	58.74	42.98	73.00	71460.	898.6
Stddev	.2338	.69	.17	.44	575.	38.8
%RSD	28.54	1.171	.4007	.6081	.8044	4.313
#1	-.5542	59.28	43.16	73.27	71660.	882.4
#2	-.9072	58.99	42.95	73.24	71910.	942.8
#3	-.9963	57.97	42.82	72.49	70820.	870.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1815.	876.5	594.8	208.5	70.87	-2.486
Stddev	17.	6.3	11.0	1.6	2.03	1.205
%RSD	.9478	.7167	1.848	.7900	2.868	48.47
#1	1820.	878.6	605.0	210.4	72.90	-3.768
#2	1829.	881.5	583.2	207.6	70.86	-1.376
#3	1796.	869.5	596.1	207.5	68.84	-2.315

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-e-21-a@4 Acquired: 5/31/2018 13:29:24 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.062	-1.565	74.88	170.6	9.991	3.074
Stddev	1.637	3.048	.63	1.4	.419	.243
%RSD	40.30	194.8	.8371	.8223	4.196	7.890
#1	-2.312	.1738	74.36	172.1	10.47	3.320
#2	-5.556	-5.084	75.57	170.2	9.713	3.068
#3	-4.317	.2156	74.70	169.4	9.787	2.835

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.342	18.47	473.7	742.7
Stddev	.177	.16	3.1	3.8
%RSD	5.289	.8685	.6522	.5107
#1	3.469	18.58	475.2	745.8
#2	3.140	18.55	475.7	743.9
#3	3.418	18.29	470.1	738.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7298.4	45696.	9463.1
Stddev	19.8	242.	124.7
%RSD	.27114	.53048	1.3178
#1	7285.5	45570.	9413.2
#2	7288.6	45541.	9371.1
#3	7321.2	45975.	9605.1

Sample Name: mb 460-523780/1-a Acquired: 5/31/2018 15:39:51 Type: QC

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.709	.6116	-.0299	.0977	-.0146	11.80
Stddev	3.340	.2787	.1821	.1670	.0504	.32
%RSD	90.05	45.56	609.2	170.9	344.9	2.708

#1	.1471	.2976	-.2353	.2680	-.0538	11.43
#2	-5.593	.7077	.1117	-.0658	-.0323	12.02
#3	-5.681	.8294	.0339	.0909	.0423	11.94

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0337	-.1187	.2486	.1264	-5.203	-19.42
Stddev	.0810	.0347	.2337	.4962	5.529	36.69
%RSD	240.3	29.26	94.03	392.6	106.3	188.9

#1	.0900	-.1583	.4798	-.1740	-9.018	20.13
#2	.0703	-.1048	.2535	.6991	1.138	-26.04
#3	-.0591	-.0931	.0124	-.1459	-7.727	-52.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.690	-.0013	2.237	.1474	-.1446	.2512
Stddev	2.399	.0462	7.112	.2055	.4904	.0627
%RSD	35.86	3640.	317.9	139.4	339.0	24.95

#1	-4.365	.0148	1.760	-.0828	.0835	.1906
#2	-6.547	.0347	9.576	.3123	-.7076	.3157
#3	-9.157	-.0534	-4.624	.2127	.1902	.2472

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-523780/1-a Acquired: 5/31/2018 15:39:51 Type: QC

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8882	1.785	.0587	-1.103	.7658	-.0411
Stddev	1.700	1.381	.1337	.101	.4946	.1545
%RSD	191.4	77.37	227.7	9.168	64.60	375.7

#1	1.045	.7659	.1337	-1.201	1.216	.1207
#2	-2.151	3.356	.1381	-1.109	.8449	-.0569
#3	-1.558	1.232	-.0956	-.9989	.2363	-.1872

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5004	.0599	.2030	-15.37
Stddev	.4687	.0273	.1188	3.59
%RSD	93.67	45.59	58.50	23.36

#1	.6545	.0875	.3365	-18.65
#2	-.0260	.0595	.1089	-11.53
#3	.8726	.0328	.1638	-15.93

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7204.1	44541.	9265.7
Stddev	12.9	98.	35.0
%RSD	.17944	.21922	.37797

#1	7189.3	44585.	9225.3
#2	7213.2	44608.	9285.6
#3	7209.7	44429.	9286.4

Sample Name: 460-156697-j-5-a Acquired: 5/31/2018 15:51:45 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	204.7	.5240	-.0402	57.61	.0119	216100.
Stddev	14.2	1.154	.1331	.59	.0425	1188.
%RSD	6.950	220.2	331.6	1.032	357.2	.5495

#1	215.5	-.6488	-.1695	57.30	-.0257	215200.
#2	210.0	1.658	.0965	57.24	.0581	215700.
#3	188.6	.5627	-.0474	58.29	.0034	217500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3610	.1732	.2756	16.14	27480.	30570.
Stddev	.0643	.1575	.1937	.22	94.	248.
%RSD	17.81	90.93	70.28	1.362	.3427	.8107

#1	-.4295	.3118	.1067	16.39	27400.	30310.
#2	-.3515	.2058	.2332	15.99	27460.	30600.
#3	-.3020	.0020	.4871	16.03	27590.	30800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74210.	1180.	F 315400.	29.01	.2339	-2.472
Stddev	232.	6.	2102.	.56	.7609	1.078
%RSD	.3130	.5160	.6664	1.939	325.2	43.61

#1	74020.	1175.	315900.	28.52	.6810	-3.439
#2	74150.	1177.	313100.	29.62	-.6446	-2.667
#3	74470.	1187.	317300.	28.88	.6654	-1.309

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156697-j-5-a Acquired: 5/31/2018 15:51:45 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.298	2.039	4.576	13.19	458.4	-.0553
Stddev	1.825	2.293	.375	.18	3.9	.2313
%RSD	55.34	112.5	8.184	1.380	.8518	417.8
#1	-2.858	-.3155	4.190	13.02	454.2	-.2824
#2	-1.733	4.266	4.599	13.38	459.1	.1799
#3	-5.302	2.167	4.938	13.17	461.9	-.0636

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6535	885.6	10.72	17540.
Stddev	.3084	6.0	.24	90.
%RSD	47.20	.6740	2.280	.5124
#1	.3441	880.3	10.95	17450.
#2	.9609	884.4	10.75	17540.
#3	.6556	892.1	10.46	17630.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6422.3	40259.	9030.9
Stddev	13.7	100.	72.2
%RSD	.21398	.24726	.79922
#1	6437.6	40344.	9103.9
#2	6418.1	40283.	9029.3
#3	6411.1	40150.	8959.6

Sample Name: 460-156697-j-4-a Acquired: 5/31/2018 15:47:46 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.66	.6093	.1210	.3684	-.0443	71.83
Stddev	7.39	.6415	.2743	.0719	.0529	3.72
%RSD	54.11	105.3	226.7	19.53	119.3	5.180

#1	19.54	.8337	.3024	.3951	.0159	67.54
#2	16.09	-.1142	-.1946	.2870	-.0655	74.01
#3	5.361	1.108	.2553	.4233	-.0833	73.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0099	-.1011	.6942	1.727	56.63	7.843
Stddev	.1614	.1255	.1348	.352	2.32	27.43
%RSD	1638.	124.1	19.42	20.36	4.091	349.7

#1	.1161	-.0991	.8166	1.691	53.95	-20.10
#2	-.1759	.0234	.7163	1.395	57.95	34.73
#3	.0893	-.2276	.5497	2.095	57.98	8.897

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.906	.8750	7.907	.2209	1.503	-.1390
Stddev	8.893	.0278	13.35	.2104	1.391	.1265
%RSD	128.8	3.174	168.9	95.28	92.54	91.01

#1	7.967	.9025	23.28	.4508	2.799	-.1574
#2	15.22	.8753	-.8487	.1739	1.677	-.2553
#3	-2.470	.8470	1.294	.0379	.0334	-.0043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156697-j-4-a Acquired: 5/31/2018 15:47:46 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8395	.6530	-.0687	1.751	16.99	-.2293
Stddev	2.719	2.039	.1185	.067	.08	.1913
%RSD	323.8	312.2	172.7	3.812	.4713	83.42

#1	2.104	2.935	-.0255	1.716	16.92	-.2230
#2	-3.256	.0120	.0222	1.708	16.98	-.4236
#3	-1.367	-.9883	-.2027	1.828	17.08	-.0412

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3609	.2778	.3910	102.6
Stddev	.3772	.0303	.0852	2.5
%RSD	104.5	10.91	21.79	2.466

#1	-.6979	.2988	.4891	103.2
#2	-.4313	.2916	.3358	104.8
#3	.0465	.2431	.3481	99.81

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7215.3	44947.	9362.5
Stddev	11.9	172.	27.6
%RSD	.16550	.38245	.29486

#1	7207.9	44873.	9341.3
#2	7229.1	45144.	9393.7
#3	7209.0	44825.	9352.6

Sample Name: 460-157010-e-22-a@4 Acquired: 5/31/2018 13:33:13 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19140.	20.69	-6930	150.9	2.814	1378.
Stddev	184.	.66	.1673	.8	.004	20.
%RSD	.9637	3.196	24.15	.5554	.1367	1.434
#1	19300.	21.05	-.5856	151.3	2.813	1361.
#2	19180.	21.11	-.8858	151.5	2.818	1400.
#3	18940.	19.93	-.6076	150.0	2.811	1373.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9292	59.89	55.97	38.63	72480.	1546.
Stddev	.1398	.73	.47	.11	718.	29.
%RSD	15.05	1.225	.8408	.2860	.9907	1.906
#1	-.7684	60.59	56.30	38.52	72890.	1575.
#2	-.9980	59.96	56.18	38.63	72900.	1546.
#3	-1.021	59.13	55.44	38.74	71650.	1516.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2053.	683.9	177.0	302.8	29.66	-3.124
Stddev	7.	5.8	11.0	3.2	.84	.240
%RSD	.3402	.8458	6.203	1.064	2.826	7.680
#1	2056.	687.7	165.1	305.5	29.64	-3.270
#2	2045.	686.7	186.7	303.6	28.83	-2.847
#3	2058.	677.2	179.2	299.2	30.51	-3.255

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-e-22-a@4 Acquired: 5/31/2018 13:33:13 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.375	.6102	65.21	198.5	10.01	1.065
Stddev	.949	1.862	.25	1.8	.44	.340
%RSD	28.12	305.1	.3765	.8922	4.430	31.91
#1	-2.616	.1433	65.46	200.0	9.705	1.343
#2	-4.439	2.661	64.98	199.0	10.52	.6860
#3	-3.069	-.9736	65.18	196.6	9.803	1.165

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.555	15.96	523.7	518.7
Stddev	.137	.10	4.0	19.7
%RSD	8.841	.6546	.7670	3.796
#1	1.505	16.08	526.9	535.4
#2	1.710	15.92	525.0	523.7
#3	1.449	15.88	519.2	497.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7231.6	45268.	9374.5
Stddev	54.3	595.	85.2
%RSD	.75045	1.3134	.90871
#1	7181.5	44719.	9293.1
#2	7223.9	45185.	9367.3
#3	7289.2	45900.	9463.0

Sample Name: 460-156806-j-2-a Acquired: 5/31/2018 16:03:54 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	437.6	.5252	-.1530	147.1	.0012	36730.
Stddev	7.3	1.670	.2136	.7	.0176	545.
%RSD	1.659	318.0	139.7	.4788	1466.	1.483

#1	437.2	2.064	-.0974	147.4	.0182	36350.
#2	445.0	.7616	.0274	146.3	.0024	36480.
#3	430.5	-1.250	-.3889	147.6	-.0170	37350.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0222	.1392	2.615	1.868	1075.	34780.
Stddev	.1012	.0784	.279	.441	16.	280.
%RSD	456.8	56.29	10.66	23.59	1.488	.8062

#1	.0843	.1730	2.478	2.266	1057.	34480.
#2	-.1171	.1949	2.432	1.945	1087.	35030.
#3	-.0336	.0496	2.936	1.394	1082.	34820.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53560.	179.3	62590.	2.162	-1.085	-1.901
Stddev	793.	.4	369.	.047	.808	1.481
%RSD	1.480	.2067	.5893	2.154	74.42	77.90

#1	53040.	179.4	62230.	2.215	-1.859	-1.983
#2	53160.	178.9	62970.	2.126	-.2474	-3.340
#3	54470.	179.7	62580.	2.147	-1.150	-.3810

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156806-j-2-a Acquired: 5/31/2018 16:03:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0610	.6346	2.728	8.190	165.9	.2618
Stddev	.9532	1.520	.583	.070	1.1	.1591
%RSD	1564.	239.5	21.35	.8578	.6652	60.77
#1	.8962	-.6493	3.076	8.112	167.2	.4209
#2	-.9775	.2405	2.056	8.212	165.4	.2620
#3	.2642	2.313	3.053	8.247	165.2	.1026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3652	467.9	19.70	5413.
Stddev	.4929	3.2	1.40	30.
%RSD	135.0	.6771	7.084	.5543
#1	-.9286	464.5	19.68	5382.
#2	-.0139	470.8	21.11	5416.
#3	-.1529	468.4	18.32	5442.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6890.7	43238.	9293.7
Stddev	43.6	539.	106.1
%RSD	.63223	1.2469	1.1419
#1	6899.4	43600.	9395.8
#2	6929.3	43496.	9184.0
#3	6843.4	42618.	9301.3

Sample Name: 460-156657-a-23-b Acquired: 5/31/2018 16:07:49 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1472.	3.965	-5687	415.7	.0999	F 448000.
Stddev	14.	.327	.2919	1.0	.0273	172.
%RSD	.9213	8.237	51.33	.2494	27.29	.0383

#1	1477.	4.001	-.8945	415.3	.1188	448000.
#2	1456.	3.622	-.4808	415.0	.1124	448100.
#3	1482.	4.272	-.3308	416.9	.0687	447800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.372	.1957	-2.174	12.73	1399.	5463.
Stddev	.118	.1408	.142	.37	22.	37.
%RSD	1.605	71.94	6.537	2.872	1.591	.6770

#1	7.241	.0508	-2.253	12.50	1390.	5496.
#2	7.404	.3320	-2.010	12.55	1383.	5423.
#3	7.470	.2045	-2.260	13.15	1424.	5469.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	830.1	85.49	86250.	1.626	-3.233	.9546
Stddev	9.6	1.34	357.	.395	.359	1.645
%RSD	1.151	1.563	.4144	24.30	11.10	172.3

#1	829.4	84.80	86440.	1.861	-3.382	-.1650
#2	820.9	84.64	85840.	1.170	-2.824	2.843
#3	840.0	87.03	86470.	1.848	-3.494	.1856

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-23-b Acquired: 5/31/2018 16:07:49 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.62	2.666	2.140	6.773	1.439	69.28
Stddev	2.10	.939	.183	.145	.696	.89
%RSD	16.63	35.23	8.559	2.146	48.34	1.285
#1	13.90	1.733	1.946	6.929	.7676	68.26
#2	10.20	3.611	2.310	6.746	1.392	69.85
#3	13.76	2.655	2.164	6.642	2.156	69.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5789	162.7	94.66	1676.
Stddev	.3150	.9	9.10	20.
%RSD	54.42	.5767	9.618	1.205
#1	.3613	163.2	104.8	1653.
#2	.4352	161.6	87.32	1683.
#3	.9402	163.4	91.81	1691.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6584.5	41927.	9208.0
Stddev	12.8	188.	122.5
%RSD	.19436	.44862	1.3301
#1	6599.0	41809.	9081.1
#2	6575.0	41827.	9217.3
#3	6579.4	42143.	9325.6

Sample Name: 460-156657-a-25-b Acquired: 5/31/2018 16:15:56 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6247.	3.311	-3962	287.4	.0480	F 971600.
Stddev	58.	.432	.1428	2.8	.0601	12570.
%RSD	.9216	13.05	36.05	.9840	125.1	1.294

#1	6305.	3.599	-.4501	290.5	.0251	984100.
#2	6246.	2.815	-.5042	284.9	.0028	959000.
#3	6190.	3.520	-.2342	287.0	.1162	971800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	414.8	12.25	-8.554	1.280	488.6	2857.
Stddev	3.3	.08	.137	.099	19.8	68.
%RSD	.7855	.6841	1.601	7.744	4.050	2.377

#1	418.4	12.20	-8.563	1.332	511.4	2914.
#2	412.0	12.21	-8.686	1.166	476.5	2876.
#3	414.1	12.35	-8.412	1.344	477.8	2782.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	360.4	13.43	79090.	22.79	-7.910	.5230
Stddev	5.9	.26	819.	.51	2.163	.5585
%RSD	1.647	1.902	1.036	2.244	27.34	106.8

#1	365.2	13.72	79900.	22.93	-9.706	-.1208
#2	353.8	13.25	79100.	22.23	-8.515	.8122
#3	362.1	13.33	78270.	23.22	-5.509	.8776

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-25-b Acquired: 5/31/2018 16:15:56 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.70	3.964	1.739	617.8	3.041	14.19
Stddev	3.10	1.939	.204	5.8	.122	.19
%RSD	21.06	48.91	11.74	.9424	4.016	1.369

#1	12.10	5.797	1.853	623.0	3.011	14.41
#2	13.88	1.935	1.503	611.5	3.175	14.08
#3	18.13	4.159	1.861	618.8	2.936	14.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4453	258.1	26.59	320.1
Stddev	.6734	3.1	.44	11.9
%RSD	151.2	1.206	1.648	3.708

#1	1.205	260.8	27.09	317.0
#2	-.0790	258.9	26.25	333.2
#3	.2102	254.7	26.44	310.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6334.0	40372.	9101.7
Stddev	47.9	413.	96.9
%RSD	.75685	1.0241	1.0651

#1	6280.2	39932.	9000.8
#2	6372.3	40753.	9110.1
#3	6349.4	40432.	9194.1

Sample Name: 460-156657-a-24-b Acquired: 5/31/2018 16:11:53 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	507.3	2.524	.6643	399.3	.0395	F 490400.
Stddev	4.3	.801	.7917	1.9	.0235	4888.
%RSD	.8563	31.72	119.2	.4676	59.49	.9967

#1	502.9	1.754	.9260	401.3	.0124	486000.
#2	511.5	3.352	-.2251	399.1	.0549	495700.
#3	507.7	2.467	1.292	397.6	.0510	489500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40.73	1.977	-3.362	21.60	672.0	7374.
Stddev	.26	.049	.157	.48	16.3	47.
%RSD	.6446	2.454	4.657	2.239	2.423	.6390

#1	41.02	1.989	-3.334	21.61	690.6	7378.
#2	40.64	2.017	-3.221	21.11	660.4	7419.
#3	40.52	1.923	-3.531	22.07	664.9	7325.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1004.	980.3	88130.	3.942	-2.899	1.175
Stddev	16.	3.1	570.	.233	.836	1.580
%RSD	1.598	.3209	.6467	5.906	28.82	134.5

#1	1018.	978.5	88130.	3.680	-2.608	1.528
#2	986.8	984.0	88700.	4.125	-2.248	-.5517
#3	1008.	978.6	87560.	4.020	-3.841	2.548

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-24-b Acquired: 5/31/2018 16:11:53 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.56	5.875	2.151	9.171	3.217	26.65
Stddev	.82	.708	.118	.287	.231	.42
%RSD	6.016	12.05	5.502	3.134	7.165	1.583

#1	14.39	5.588	2.285	9.410	3.472	27.14
#2	12.75	5.355	2.109	9.251	3.156	26.41
#3	13.55	6.681	2.059	8.852	3.023	26.41

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3736	178.7	30.21	1718.
Stddev	.6308	.7	.98	26.
%RSD	168.9	.3709	3.240	1.493

#1	-.1439	179.3	30.29	1748.
#2	.1883	178.8	31.14	1703.
#3	1.076	178.0	29.19	1704.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6621.5	41885.	9159.0
Stddev	6.1	90.	95.8
%RSD	.09267	.21509	1.0457

#1	6615.4	41782.	9238.5
#2	6627.6	41946.	9052.7
#3	6621.6	41929.	9185.8

Sample Name: CCV Acquired: 5/31/2018 16:20:00 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120100.	2461.	1198.	10060.	962.4	119600.
Stddev	782.	15.	14.	78.	8.1	2437.
%RSD	.6511	.6178	1.186	.7768	.8394	2.037

#1	120400.	2444.	1182.	9967.	964.9	116800.
#2	120600.	2468.	1204.	10110.	969.0	120700.
#3	119200.	2472.	1209.	10100.	953.4	121300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1239.	2502.	4866.	12230.	96810.	47430.
Stddev	12.	21.	91.	91.	1830.	392.
%RSD	.9744	.8321	1.862	.7472	1.890	.8254

#1	1225.	2478.	4762.	12120.	94710.	47590.
#2	1247.	2513.	4908.	12290.	97700.	47710.
#3	1245.	2514.	4927.	12270.	98040.	46980.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	119200.	5012.	121600.	2523.	7455.	979.7
Stddev	2332.	88.	942.	22.	65.	3.3
%RSD	1.956	1.757	.7749	.8915	.8721	.3322

#1	116500.	4910.	122200.	2497.	7380.	975.9
#2	120400.	5057.	122000.	2537.	7491.	981.9
#3	120700.	5068.	120500.	2535.	7494.	981.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 16:20:00 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2468.	2517.	2434.	2480.	981.8	2456.
Stddev	7.	12.	36.	37.	3.7	18.
%RSD	.2714	.4787	1.492	1.480	.3735	.7427

#1	2460.	2503.	2392.	2438.	977.6	2435.
#2	2472.	2520.	2454.	2504.	983.7	2467.
#3	2471.	2526.	2457.	2499.	984.1	2465.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	992.6	4893.	9796.	9760.
Stddev	11.6	43.	145.	13.
%RSD	1.169	.8804	1.479	.1382

#1	979.2	4921.	9629.	9749.
#2	1000.	4914.	9870.	9775.
#3	998.0	4843.	9890.	9756.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6704.0	42273.	9304.0
Stddev	36.5	633.	49.2
%RSD	.54464	1.4983	.52829

#1	6746.0	42999.	9357.7
#2	6679.9	41992.	9261.2
#3	6686.0	41829.	9293.1

Sample Name: CCVL Acquired: 5/31/2018 16:27:43 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	176.2	13.49	8.614	192.4	1.843	4372.
Stddev	6.4	.49	.291	2.6	.117	147.
%RSD	3.641	3.634	3.381	1.341	6.340	3.363

#1	171.1	13.48	8.537	190.2	1.727	4236.
#2	174.1	13.00	8.369	191.9	1.840	4353.
#3	183.4	13.98	8.936	195.3	1.961	4528.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.817	47.99	9.393	22.65	162.1	4118.
Stddev	.121	1.42	.580	.80	6.5	183.
%RSD	3.181	2.953	6.179	3.528	4.008	4.442

#1	3.678	46.92	8.834	22.14	162.5	3987.
#2	3.872	47.45	9.350	22.23	155.3	4040.
#3	3.901	49.59	9.993	23.57	168.3	4327.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4323.	14.52	4266.	39.48	9.541	18.20
Stddev	158.	.46	167.	1.21	.523	.92
%RSD	3.649	3.182	3.923	3.073	5.483	5.035

#1	4201.	14.13	4124.	38.47	9.905	18.61
#2	4267.	14.39	4225.	39.14	8.941	17.15
#3	4501.	15.03	4450.	40.83	9.775	18.83

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 16:27:43 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.95	23.16	45.60	28.70	45.96	18.70
Stddev	2.23	1.50	1.20	.68	1.54	.41
%RSD	14.01	6.487	2.634	2.380	3.360	2.186
#1	17.47	21.63	44.82	28.19	44.83	18.62
#2	13.38	24.63	44.99	28.44	45.34	18.33
#3	16.99	23.23	46.98	29.47	47.72	19.14

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	46.30	18.03	19.69	F -4.281
Stddev	.84	.85	.45	20.68
%RSD	1.808	4.703	2.305	482.9
#1	45.81	17.27	19.40	-16.25
#2	45.84	17.88	19.45	-16.19
#3	47.27	18.94	20.21	19.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7127.1	44879.	9480.5
Stddev	92.1	1186.	354.2
%RSD	1.2929	2.6416	3.7365
#1	7194.7	45963.	9799.6
#2	7164.4	45061.	9542.6
#3	7022.1	43613.	9099.4

Sample Name: lcs 460-523780/2-a Acquired: 5/31/2018 16:31:41 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1901.	1912.	46.15	2091.	47.75	19280.
Stddev	6.	12.	.40	6.	.28	50.
%RSD	.3033	.6228	.8639	.2723	.5838	.2568

#1	1904.	1925.	46.60	2097.	47.93	19290.
#2	1905.	1910.	45.83	2091.	47.89	19230.
#3	1894.	1902.	46.01	2085.	47.43	19330.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.43	525.4	205.3	242.2	1007.	18270.
Stddev	.05	1.1	1.4	.6	11.	158.
%RSD	.0926	.2159	.6961	.2302	1.123	.8660

#1	51.48	526.6	206.6	242.9	1002.	18410.
#2	51.39	525.4	203.8	242.0	998.7	18290.
#3	51.41	524.3	205.5	241.8	1020.	18100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18830.	519.5	19040.	520.7	522.4	483.7
Stddev	32.	1.5	117.	2.2	1.5	3.0
%RSD	.1720	.2893	.6145	.4175	.2921	.6103

#1	18850.	521.0	19120.	522.3	520.7	483.5
#2	18790.	518.0	19090.	521.6	523.5	486.7
#3	18850.	519.5	18900.	518.2	523.0	480.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: lcs 460-523780/2-a Acquired: 5/31/2018 16:31:41 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1949.	2226.	510.5	524.1	505.4	512.9
Stddev	5.	5.	1.8	1.4	2.1	1.3
%RSD	.2357	.2149	.3437	.2623	.4146	.2612

#1	1954.	2221.	511.8	525.7	507.4	514.3
#2	1946.	2230.	508.5	523.6	505.6	513.0
#3	1947.	2226.	511.3	523.1	503.2	511.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	519.3	485.2	510.2	269.0
Stddev	2.3	3.9	1.9	2.7
%RSD	.4429	.8041	.3794	1.014

#1	521.2	487.7	511.3	270.5
#2	519.9	487.2	507.9	270.6
#3	516.7	480.7	511.3	265.8

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7075.7	44191.	9346.0
Stddev	37.4	227.	29.9
%RSD	.52893	.51382	.31978

#1	7032.5	43959.	9325.0
#2	7098.8	44202.	9332.7
#3	7095.8	44413.	9380.2

Sample Name: 460-156657-a-29-b Acquired: 5/31/2018 16:43:25 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1061.	3.730	-2858	510.8	.0468	F 1051000.
Stddev	46.	1.351	.1084	10.8	.0244	34850.
%RSD	4.380	36.22	37.92	2.122	52.18	3.315
#1	1040.	3.061	-.3445	498.5	.0237	1013000.
#2	1029.	2.843	-.3521	519.0	.0443	1060000.
#3	1115.	5.285	-.1607	514.9	.0724	1080000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.004	.3994	-9.317	6.368	245.4	4665.
Stddev	.142	.2333	.524	.802	6.0	112.
%RSD	7.096	58.41	5.620	12.60	2.454	2.408
#1	1.856	.5822	-8.727	5.562	239.0	4616.
#2	2.015	.1366	-9.500	7.167	246.5	4585.
#3	2.140	.4795	-9.725	6.374	250.9	4793.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	529.9	61.81	87940.	3.744	-6.253	.9094
Stddev	26.7	2.68	2138.	.219	1.056	1.768
%RSD	5.041	4.331	2.431	5.840	16.89	194.4
#1	499.2	58.78	86860.	3.986	-6.749	-1.016
#2	547.7	62.82	86560.	3.562	-6.970	1.284
#3	542.9	63.84	90400.	3.683	-5.040	2.460
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-29-b Acquired: 5/31/2018 16:43:25 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.89	.5777	.4399	4.374	3.684	73.36
Stddev	2.78	2.899	.2570	.195	.809	2.35
%RSD	25.51	501.8	58.43	4.463	21.96	3.205
#1	13.95	-1.633	.6884	4.150	2.771	70.70
#2	10.23	3.860	.1751	4.510	4.310	75.18
#3	8.510	-.4931	.4562	4.461	3.971	74.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0207	294.8	14.03	187.0
Stddev	.3025	6.6	.56	22.3
%RSD	1464.	2.224	3.971	11.94
#1	-.2311	291.8	13.39	171.9
#2	.3563	290.2	14.30	212.7
#3	-.0632	302.3	14.40	176.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6196.1	39506.	9072.9
Stddev	105.6	1009.	346.4
%RSD	1.7047	2.5543	3.8185
#1	6312.9	40656.	9165.5
#2	6107.4	39091.	9363.6
#3	6167.9	38770.	8689.6

Sample Name: CCV Acquired: 5/31/2018 13:48:36 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121000.	2424.	1199.	10010.	972.5	122600.
Stddev	205.	11.	5.	40.	1.8	703.
%RSD	.1690	.4552	.4043	.3996	.1892	.5736

#1	121200.	2418.	1195.	9982.	972.9	122300.
#2	120800.	2417.	1197.	9992.	970.5	122200.
#3	121100.	2437.	1204.	10060.	974.1	123400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1232.	2488.	4926.	12110.	98390.	47880.
Stddev	6.	11.	28.	59.	524.	135.
%RSD	.4690	.4382	.5614	.4902	.5321	.2826

#1	1227.	2479.	4906.	12050.	98030.	47980.
#2	1230.	2484.	4915.	12130.	98150.	47730.
#3	1238.	2500.	4958.	12160.	98990.	47940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121400.	5051.	122400.	2504.	7465.	958.9
Stddev	616.	24.	152.	9.	36.	3.6
%RSD	.5076	.4690	.1243	.3642	.4877	.3783

#1	121100.	5037.	122500.	2498.	7438.	954.9
#2	121100.	5038.	122300.	2499.	7451.	960.0
#3	122100.	5079.	122500.	2514.	7507.	961.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 13:48:36 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2423.	2522.	2452.	2494.	966.0	2442.
Stddev	5.	10.	10.	17.	3.6	13.
%RSD	.2181	.4093	.4204	.6899	.3691	.5436

#1	2425.	2516.	2443.	2480.	963.8	2431.
#2	2417.	2515.	2449.	2488.	964.2	2438.
#3	2427.	2534.	2463.	2513.	970.2	2457.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	991.5	4888.	9914.	9393.
Stddev	5.8	9.	50.	68.
%RSD	.5806	.1826	.5004	.7281

#1	988.4	4888.	9883.	9318.
#2	987.9	4880.	9888.	9452.
#3	998.1	4898.	9972.	9410.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6748.3	41727.	8887.5
Stddev	34.5	238.	41.6
%RSD	.51176	.57005	.46816

#1	6782.6	41902.	8844.1
#2	6748.9	41824.	8927.0
#3	6713.5	41456.	8891.4

Sample Name: 460-156657-a-28-b@5 Acquired: 5/31/2018 16:51:33 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	156.3	1.162	-6804	161.7	-0.0126	221300.
Stddev	6.7	.877	.3455	2.3	.0489	2601.
%RSD	4.288	75.49	50.79	1.448	388.0	1.175

#1	163.5	.3835	-.9674	164.0	-.0409	223300.
#2	155.2	2.112	-.7769	161.8	-.0408	222300.
#3	150.3	.9895	-.2968	159.3	.0439	218400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.085	.5150	-1.506	2.119	1730.	967.3
Stddev	.208	.0722	.363	.447	28.	35.4
%RSD	6.742	14.03	24.08	21.11	1.610	3.656

#1	3.269	.5918	-1.095	2.381	1756.	995.2
#2	3.127	.5047	-1.781	2.374	1734.	979.2
#3	2.860	.4485	-1.643	1.603	1700.	927.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	190.9	219.3	17320.	2.806	-1.076	.5019
Stddev	4.0	2.1	261.	.116	.233	.1337
%RSD	2.117	.9636	1.510	4.116	21.68	26.64

#1	195.5	221.1	17600.	2.938	-1.298	.5753
#2	187.8	219.8	17270.	2.759	-.8329	.5827
#3	189.4	216.9	17080.	2.722	-1.098	.3476

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-28-b@5 Acquired: 5/31/2018 16:51:33 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.833	2.523	.9940	4.827	2.053	8.300
Stddev	2.895	2.552	.3244	.074	.708	.262
%RSD	157.9	101.1	32.64	1.535	34.49	3.154
#1	1.160	5.464	1.170	4.849	2.230	8.594
#2	5.006	1.204	.6196	4.888	2.656	8.094
#3	-.6661	.9009	1.192	4.745	1.273	8.211

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5569	61.79	10.62	408.7
Stddev	.3140	.96	.26	18.8
%RSD	56.37	1.554	2.411	4.601
#1	.8008	62.86	10.91	427.5
#2	.2027	61.49	10.50	408.7
#3	.6673	61.01	10.45	389.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6772.1	42117.	9116.9
Stddev	76.8	433.	75.3
%RSD	1.1339	1.0292	.82545
#1	6697.5	41704.	9068.5
#2	6767.9	42078.	9078.5
#3	6850.9	42569.	9203.6

Sample Name: 460-156657-a-29-b@5 Acquired: 5/31/2018 16:55:29 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	224.6	2.075	-.3091	103.1	-.0520	218900.
Stddev	5.5	.632	.3893	1.8	.0127	3513.
%RSD	2.448	30.46	126.0	1.751	24.47	1.604
#1	222.9	2.586	-.6926	105.2	-.0663	222100.
#2	230.7	1.368	.0858	102.1	-.0475	219600.
#3	220.1	2.270	-.3203	102.0	-.0421	215200.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4125	-.0321	-1.768	1.814	64.31	906.4
Stddev	.0987	.0410	.268	.215	8.08	4.4
%RSD	23.93	127.9	15.15	11.84	12.56	.4894
#1	.3303	-.0685	-2.005	1.667	72.22	901.4
#2	.5220	.0123	-1.478	1.715	64.65	909.9
#3	.3852	-.0399	-1.822	2.061	56.07	907.8

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	106.5	13.03	17140.	1.180	-1.440	-.7385
Stddev	2.2	.18	243.	.283	.763	1.575
%RSD	2.086	1.367	1.420	24.00	52.98	213.3
#1	107.8	13.00	17330.	.8944	-.7539	.5230
#2	107.9	13.22	17210.	1.185	-2.261	-2.504
#3	104.0	12.86	16860.	1.461	-1.304	-.2344

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-156657-a-29-b@5 Acquired: 5/31/2018 16:55:29 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.193	3.058	-1.768	1.516	1.450	14.43
Stddev	.722	.873	.3819	.144	.537	.59
%RSD	32.92	28.55	216.0	9.499	37.03	4.061
#1	2.946	2.057	-.1801	1.666	1.614	14.96
#2	2.127	3.664	.2068	1.379	1.886	14.53
#3	1.506	3.452	-.5571	1.504	.8502	13.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1172	60.31	4.074	56.67
Stddev	.4410	.88	.056	5.59
%RSD	376.2	1.465	1.386	9.867
#1	-.3607	61.04	4.112	60.35
#2	.3919	60.56	4.009	59.43
#3	-.3829	59.32	4.100	50.24
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6701.3	41440.	8939.2
Stddev	106.1	670.	124.2
%RSD	1.5831	1.6161	1.3895
#1	6580.1	40760.	8820.9
#2	6746.7	41461.	8928.3
#3	6777.2	42099.	9068.6

Sample Name: CCVL Acquired: 5/31/2018 13:56:20 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	154.8	12.59	8.470	188.9	1.593	4371.
Stddev	31.4	.50	.060	2.0	.357	77.
%RSD	20.31	3.944	.7063	1.054	22.42	1.756

#1	118.5	12.24	8.422	190.3	1.180	4306.
#2	171.4	12.37	8.452	189.7	1.808	4456.
#3	174.4	13.16	8.537	186.6	1.789	4352.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.757	47.01	9.026	22.11	158.7	3600.
Stddev	.100	.64	.313	.51	14.5	832.
%RSD	2.667	1.367	3.469	2.284	9.152	23.11

#1	3.776	47.64	8.977	21.54	142.1	2641.
#2	3.847	47.03	9.361	22.52	168.8	4131.
#3	3.649	46.36	8.740	22.27	165.2	4028.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4345.	14.49	3683.	39.42	8.939	17.48
Stddev	137.	.54	816.	.87	.712	.74
%RSD	3.143	3.750	22.16	2.204	7.964	4.240

#1	4193.	13.87	2741.	40.13	9.684	17.15
#2	4457.	14.88	4162.	39.68	8.266	16.96
#3	4385.	14.72	4148.	38.45	8.867	18.33

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 13:56:20 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.36	22.91	45.32	28.61	44.14	18.22
Stddev	1.22	.55	.89	.40	1.29	.37
%RSD	8.472	2.413	1.963	1.383	2.928	2.036
#1	15.49	23.31	44.40	28.61	45.01	17.86
#2	14.52	23.15	46.18	29.01	44.76	18.60
#3	13.07	22.28	45.39	28.22	42.65	18.20

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	46.18	15.54	19.62	F -26.13
Stddev	1.19	3.49	.83	28.24
%RSD	2.573	22.43	4.243	108.1
#1	46.56	11.52	18.66	-57.57
#2	47.13	17.73	20.01	-2.908
#3	44.85	17.37	20.19	-17.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7169.9	44609.	9859.5
Stddev	48.1	103.	1121.0
%RSD	.67131	.23001	11.369
#1	7173.7	44644.	11143.
#2	7216.0	44690.	9071.6
#3	7120.0	44494.	9364.1

Sample Name: 460-156657-a-25-b@5 Acquired: 5/31/2018 16:59:27 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1230.	1.498	-.3418	57.10	-.0447	199900.
Stddev	36.	1.684	.2074	1.04	.0275	3154.
%RSD	2.901	112.4	60.66	1.821	61.66	1.578
#1	1261.	.5667	-.4793	58.26	-.0413	202000.
#2	1238.	3.441	-.1033	56.78	-.0190	201400.
#3	1191.	.4853	-.4429	56.26	-.0738	196300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	85.12	2.398	-1.634	.5874	100.6	529.3
Stddev	1.14	.056	.489	.1210	10.1	27.1
%RSD	1.338	2.350	29.91	20.61	9.994	5.120
#1	86.43	2.362	-1.073	.4482	97.68	557.2
#2	84.40	2.463	-1.968	.6453	92.33	527.6
#3	84.53	2.368	-1.861	.6685	111.8	503.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74.84	2.683	15150.	5.100	-2.068	.0117
Stddev	1.46	.040	387.	.308	.314	1.291
%RSD	1.951	1.474	2.555	6.047	15.16	11060.
#1	76.53	2.681	15420.	5.325	-2.308	1.435
#2	73.91	2.723	15330.	4.749	-2.182	-.3189
#3	74.09	2.644	14710.	5.227	-1.713	-1.082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-25-b@5 Acquired: 5/31/2018 16:59:27 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0978	4.225	.1109	128.0	.4415	2.684
Stddev	2.229	.987	.1112	1.4	.3849	.385
%RSD	2280.	23.36	100.3	1.078	87.17	14.36
#1	1.437	3.738	.2370	129.6	.8624	2.928
#2	-2.476	5.362	.0272	127.4	.1075	2.885
#3	1.332	3.576	.0684	127.0	.3547	2.240

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0543	51.53	6.336	62.57
Stddev	.0971	1.46	.167	17.45
%RSD	178.7	2.836	2.632	27.89
#1	-.1229	52.57	6.528	78.38
#2	-.0968	52.16	6.248	65.48
#3	.0567	49.86	6.231	43.84

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6921.7	42905.	9182.2
Stddev	142.7	861.	90.5
%RSD	2.0612	2.0073	.98535
#1	6761.3	42293.	9148.8
#2	6969.4	42532.	9113.2
#3	7034.5	43890.	9284.7

Sample Name: CCB Acquired: 5/31/2018 17:15:09 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.70	.4611	.1423	.3387	.2457	16.38
Stddev	32.73	.6807	.2527	.2590	.2139	8.13
%RSD	122.6	147.6	177.5	76.48	87.07	49.62

#1	30.10	.3857	.1105	.6198	.1642	25.70
#2	-7.596	1.176	-.0929	.2867	.0845	12.69
#3	57.59	-.1789	.4095	.1096	.4883	10.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0989	.0474	.1530	.4388	12.73	6.009
Stddev	.0493	.0581	.2688	.5657	7.22	8.082
%RSD	49.91	122.6	175.6	128.9	56.70	134.5

#1	.1558	.0252	.0296	.9997	17.77	-1.604
#2	.0680	.0036	.4613	-.1315	4.462	14.49
#3	.0728	.1133	-.0318	.4480	15.97	5.144

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.287	.2614	78.12	.7739	.0618	.3020
Stddev	6.747	.2332	32.30	.5543	.3001	2.810
%RSD	524.2	89.24	41.34	71.63	485.8	930.4

#1	6.412	.5118	70.24	1.413	-.2181	3.527
#2	3.807	.2219	50.48	.4302	.0247	-.9990
#3	-6.357	.0503	113.6	.4782	.3787	-1.621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 17:15:09 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3521	1.897	.1447	-.7433	1.716	1.071
Stddev	.7570	.835	.0778	.0907	.280	.717
%RSD	215.0	44.01	53.80	12.20	16.34	66.95
#1	.8662	.9397	.0646	-.6387	1.976	1.816
#2	-.5171	2.279	.1493	-.8010	1.754	1.013
#3	.7073	2.473	.2201	-.7901	1.419	.3850

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0241	1.291	2.482	2.183
Stddev	.2481	1.079	1.633	15.39
%RSD	1029.	83.62	65.79	705.0
#1	-.2254	1.134	4.302	7.453
#2	.0270	.2981	1.999	14.25
#3	.2707	2.440	1.145	-15.15

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7224.5	45035.	9318.3
Stddev	50.3	410.	35.9
%RSD	.69580	.91094	.38572
#1	7221.3	44834.	9359.3
#2	7176.0	44764.	9302.8
#3	7276.3	45507.	9292.6

Sample Name: 460-157010-a-11-a@4 Acquired: 5/31/2018 14:11:47 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34220.	3086.	-3.000	708.0	3.988	32020.
Stddev	231.	28.	.318	5.6	.039	183.
%RSD	.6740	.8998	10.59	.7888	.9659	.5727

#1	34250.	3088.	-2.695	705.0	4.031	31820.
#2	33970.	3058.	-2.976	704.6	3.957	32190.
#3	34430.	3113.	-3.329	714.5	3.976	32050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.480	78.04	191.3	769.4	F 425400.	1524.
Stddev	.735	.80	1.4	9.3	1649.	63.
%RSD	16.40	1.029	.7152	1.210	.3876	4.143

#1	-4.491	77.52	189.7	767.6	423500.	1518.
#2	-5.209	77.63	192.0	761.1	426200.	1464.
#3	-3.740	78.96	192.1	779.4	426400.	1590.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4612.	2279.	628.1	433.8	338.4	8.651
Stddev	24.	9.	10.2	3.2	1.5	1.309
%RSD	.5194	.4161	1.628	.7351	.4510	15.14

#1	4585.	2269.	627.2	431.8	336.6	10.15
#2	4624.	2278.	618.4	432.1	339.5	7.720
#3	4629.	2288.	638.8	437.5	339.0	8.085

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-11-a@4 Acquired: 5/31/2018 14:11:47 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -18.14	-5.752	266.2	602.4	80.89	12.69
Stddev	.79	1.981	1.9	6.5	.80	.10
%RSD	4.363	34.43	.7276	1.072	.9851	.7979
#1	-18.16	-7.763	264.6	595.9	80.82	12.77
#2	-17.34	-3.803	265.7	602.5	80.13	12.72
#3	-18.92	-5.691	268.4	608.8	81.72	12.57
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	5000.					
Low Limit	-10.00					

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	33.35	355.0	1122.	859.0
Stddev	.58	2.8	6.	30.4
%RSD	1.737	.8013	.5455	3.535
#1	34.00	357.6	1120.	893.3
#2	33.16	352.0	1117.	835.6
#3	32.89	355.5	1129.	848.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7108.9	45124.	9548.3
Stddev	72.3	413.	133.8
%RSD	1.0176	.91528	1.4008
#1	7028.0	44674.	9608.8
#2	7167.5	45212.	9641.1
#3	7131.2	45486.	9395.0

Sample Name: CCVL Acquired: 5/31/2018 17:19:09 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	170.5	14.97	8.324	192.0	1.781	4433.
Stddev	14.2	.79	.105	1.1	.031	7.
%RSD	8.316	5.286	1.264	.5533	1.728	.1505

#1	164.0	15.72	8.203	191.0	1.748	4431.
#2	186.8	15.05	8.395	193.1	1.786	4440.
#3	160.8	14.14	8.375	192.0	1.808	4427.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.729	48.01	9.455	22.26	163.1	4143.
Stddev	.037	.14	.330	.18	1.0	99.
%RSD	.9967	.2932	3.486	.7982	.5916	2.385

#1	3.723	47.88	9.252	22.22	164.1	4037.
#2	3.769	48.16	9.278	22.11	163.2	4162.
#3	3.695	47.99	9.835	22.46	162.1	4232.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4422.	14.86	4245.	39.51	9.891	18.92
Stddev	31.	.03	19.	.43	.693	.79
%RSD	.6983	.2106	.4474	1.088	7.007	4.194

#1	4449.	14.88	4238.	39.01	9.720	18.62
#2	4428.	14.88	4231.	39.75	9.300	18.32
#3	4388.	14.83	4267.	39.76	10.65	19.82

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 17:19:09 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.37	23.12	46.43	29.11	45.37	18.73
Stddev	2.65	.34	.71	.40	.61	.33
%RSD	17.25	1.475	1.536	1.384	1.345	1.757
#1	12.46	22.73	46.90	28.94	44.90	18.55
#2	16.02	23.28	46.78	28.81	45.16	18.54
#3	17.64	23.36	45.61	29.56	46.06	19.11

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	46.85	17.86	19.77	F -2.449
Stddev	.10	.29	.40	24.86
%RSD	.2154	1.635	2.043	1015.
#1	46.73	17.53	20.24	-30.46
#2	46.89	18.03	19.59	6.121
#3	46.92	18.03	19.49	16.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7132.5	44351.	9255.2
Stddev	25.7	99.	88.6
%RSD	.36032	.22379	.95720
#1	7161.9	44465.	9153.0
#2	7121.8	44305.	9305.1
#3	7114.0	44283.	9307.6

Sample Name: lcssrm 460-523912/2- Acquired: 5/31/2018 14:34:33 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35890.	278.6	238.6	932.1	290.1	21400.
Stddev	211.	.6	.4	4.2	1.9	234.
%RSD	.5884	.1997	.1570	.4559	.6711	1.093
#1	35720.	278.5	238.3	927.2	289.5	21180.
#2	35820.	278.1	238.4	935.0	288.5	21640.
#3	36130.	279.2	239.0	934.1	292.2	21370.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1266.	235.4	342.8	546.1	81040.	8552.
Stddev	6.	1.3	3.3	2.5	647.	34.
%RSD	.4540	.5355	.9578	.4529	.7988	.3959
#1	1260.	233.9	339.6	544.4	80360.	8535.
#2	1270.	236.1	346.2	545.0	81650.	8531.
#3	1269.	236.1	342.7	548.9	81110.	8591.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10140.	1110.	11330.	790.9	856.7	809.8
Stddev	88.	8.	62.	4.6	3.9	2.9
%RSD	.8646	.7475	.5429	.5819	.4559	.3619
#1	10060.	1101.	11320.	785.6	852.3	806.5
#2	10230.	1117.	11280.	793.9	857.8	810.6
#3	10140.	1111.	11400.	793.1	859.9	812.2

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: lcssrm 460-523912/2- Acquired: 5/31/2018 14:34:33 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	703.5	1079.	644.9	624.9	607.2	403.6
Stddev	6.1	16.	4.6	3.5	10.5	6.7
%RSD	.8679	1.518	.7107	.5595	1.729	1.657
#1	696.8	1062.	639.6	622.0	596.8	397.4
#2	705.1	1080.	647.9	628.8	607.1	402.7
#3	708.7	1095.	647.2	623.8	617.8	410.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	747.2	439.0	3798.	1580.
Stddev	10.3	2.0	23.	42.
%RSD	1.377	.4639	.6106	2.674
#1	736.9	438.3	3772.	1622.
#2	747.2	437.4	3813.	1580.
#3	757.5	441.3	3811.	1538.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7254.8	45325.	9376.2
Stddev	9.7	331.	18.9
%RSD	.13335	.72950	.20144
#1	7256.8	45383.	9388.3
#2	7244.3	44970.	9354.5
#3	7263.4	45624.	9386.0

Sample Name: 460-156901-a-12-g du Acquired: 5/31/2018 14:22:53 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21950.	7.912	-9560	163.0	1.519	9187.
Stddev	95.	.353	.1316	.1	.032	74.
%RSD	.4346	4.464	13.77	.0834	2.073	.8070
#1	22000.	7.809	-1.106	163.1	1.485	9110.
#2	21840.	7.622	-.8616	162.8	1.547	9192.
#3	22020.	8.305	-.9000	163.0	1.524	9259.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9896	20.06	48.24	64.29	50380.	2469.
Stddev	.1102	.18	.37	.19	421.	42.
%RSD	11.14	.8923	.7648	.2934	.8363	1.713
#1	-.9106	19.86	48.01	64.25	49920.	2499.
#2	-.9425	20.21	48.04	64.49	50480.	2420.
#3	-1.116	20.11	48.66	64.12	50750.	2487.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7836.	1140.	525.5	39.60	27.69	-3.254
Stddev	66.	8.	14.1	.24	.70	.903
%RSD	.8406	.6667	2.679	.6075	2.532	27.74
#1	7771.	1131.	541.1	39.60	27.02	-2.348
#2	7836.	1142.	513.7	39.84	28.42	-3.261
#3	7902.	1146.	521.7	39.36	27.65	-4.154

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156901-a-12-g du Acquired: 5/31/2018 14:22:53 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.778	-2.797	74.66	95.37	21.25	.6710
Stddev	.186	.883	.88	.71	.32	.0756
%RSD	10.46	31.57	1.176	.7486	1.516	11.27
#1	-1.974	-3.083	73.67	94.63	21.38	.6766
#2	-1.757	-1.807	74.97	95.44	21.49	.7436
#3	-1.604	-3.502	75.35	96.05	20.88	.5927

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.936	29.68	1311.	1001.
Stddev	.414	.01	4.	6.
%RSD	8.385	.0478	.3129	.5567
#1	5.410	29.70	1306.	1006.
#2	4.645	29.68	1313.	1000.
#3	4.753	29.67	1313.	995.4

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7332.4	45817.	9473.9
Stddev	14.9	214.	33.8
%RSD	.20280	.46785	.35640
#1	7330.8	46058.	9436.0
#2	7318.4	45747.	9485.0
#3	7348.0	45648.	9500.7

Sample Name: pds 460-156901-a-12- Acquired: 5/31/2018 14:15:33 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22310.	1895.	44.41	2272.	49.11	27130.
Stddev	48.	54.	.23	67.	.08	28.
%RSD	.2171	2.856	.5200	2.928	.1647	.1051
#1	22270.	1862.	44.17	2233.	49.15	27140.
#2	22360.	1866.	44.63	2235.	49.17	27150.
#3	22310.	1958.	44.44	2349.	49.02	27100.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.98	543.0	254.2	301.4	42910.	20180.
Stddev	1.96	16.2	.7	.8	101.	69.
%RSD	3.916	2.985	.2787	.2700	.2352	.3401
#1	48.94	533.1	253.7	300.8	42970.	20100.
#2	48.77	534.1	253.9	302.3	42960.	20220.
#3	52.24	561.7	255.1	301.1	42790.	20210.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24400.	1798.	19440.	550.9	565.2	464.0
Stddev	15.	4.	38.	15.7	11.7	13.9
%RSD	.0633	.2216	.1947	2.849	2.072	3.003
#1	24420.	1801.	19400.	541.7	557.3	457.6
#2	24390.	1801.	19460.	542.1	559.7	454.4
#3	24390.	1794.	19470.	569.1	578.7	479.9

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: pds 460-156901-a-12- Acquired: 5/31/2018 14:15:33 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1916.	2169.	566.8	607.6	508.1	511.9
Stddev	66.	68.	1.8	18.4	18.2	17.0
%RSD	3.450	3.126	.3180	3.036	3.587	3.326
#1	1890.	2137.	565.5	595.3	499.7	504.1
#2	1867.	2124.	566.0	598.7	495.5	500.3
#3	1991.	2247.	568.8	628.8	529.0	531.5

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	514.7	514.3	1656.	1012.
Stddev	16.4	.7	6.	46.
%RSD	3.192	.1450	.3535	4.579
#1	505.1	514.8	1658.	981.3
#2	505.2	513.5	1661.	988.9
#3	533.6	514.7	1650.	1065.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7063.0	45041.	9323.9
Stddev	170.2	212.	25.6
%RSD	2.4099	.47163	.27508
#1	7145.0	44796.	9332.6
#2	7176.6	45173.	9295.1
#3	6867.3	45153.	9344.1

Sample Name: CCV Acquired: 5/31/2018 14:38:14 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120700.	2432.	1198.	10010.	966.6	121500.
Stddev	1036.	30.	10.	95.	7.7	973.
%RSD	.8586	1.218	.8594	.9496	.7937	.8009

#1	119500.	2398.	1186.	9901.	957.9	120400.
#2	120900.	2454.	1202.	10080.	969.5	121900.
#3	121500.	2444.	1205.	10050.	972.3	122200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1232.	2490.	4906.	12180.	97870.	47580.
Stddev	12.	26.	46.	93.	901.	372.
%RSD	1.004	1.059	.9471	.7646	.9207	.7809

#1	1217.	2460.	4854.	12070.	96840.	47170.
#2	1240.	2509.	4923.	12220.	98260.	47670.
#3	1237.	2501.	4942.	12240.	98510.	47900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120500.	5044.	122000.	2505.	7436.	966.0
Stddev	1135.	46.	1017.	28.	65.	16.8
%RSD	.9422	.9124	.8332	1.138	.8682	1.735

#1	119200.	4992.	120800.	2472.	7363.	946.7
#2	121000.	5064.	122400.	2523.	7485.	976.0
#3	121300.	5078.	122800.	2519.	7460.	975.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 14:38:14 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2435.	2508.	2447.	2487.	970.3	2447.
Stddev	31.	21.	21.	26.	13.1	25.
%RSD	1.270	.8172	.8504	1.047	1.349	1.018

#1	2400.	2484.	2424.	2457.	955.4	2418.
#2	2459.	2519.	2455.	2502.	979.9	2466.
#3	2447.	2520.	2463.	2502.	975.7	2456.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	993.6	4884.	9897.	9498.
Stddev	7.5	50.	101.	185.
%RSD	.7573	1.018	1.024	1.947

#1	984.9	4829.	9782.	9286.
#2	998.5	4895.	9935.	9576.
#3	997.3	4927.	9974.	9630.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6759.3	42033.	9032.3
Stddev	83.9	464.	32.2
%RSD	1.2418	1.1040	.35647

#1	6856.1	42559.	9067.7
#2	6707.7	41860.	9004.8
#3	6714.0	41680.	9024.6

Sample Name: 460-156964-d-4-g@4 Acquired: 5/31/2018 14:53:55 Type: Unk
 Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25820.	62.99	1.829	962.9	2.259	145700.
Stddev	81.	2.26	.427	3.9	.033	414.
%RSD	.3140	3.592	23.35	.4078	1.455	.2838
#1	25760.	64.62	2.044	963.3	2.229	145200.
#2	25910.	63.94	1.337	966.5	2.253	145900.
#3	25790.	60.40	2.106	958.7	2.294	146000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.21	33.81	135.0	620.0	131200.	4060.
Stddev	.11	.40	.5	3.1	238.	52.
%RSD	.9412	1.195	.3769	.5003	.1817	1.279
#1	11.23	33.35	134.5	622.9	131000.	4001.
#2	11.31	34.00	135.4	620.2	131300.	4086.
#3	11.10	34.09	135.3	616.8	131400.	4094.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24370.	1229.	875.4	191.1	3095.	7.058
Stddev	78.	2.	7.6	1.0	13.	1.107
%RSD	.3210	.1374	.8648	.5304	.4227	15.69
#1	24280.	1227.	868.2	190.2	3080.	6.389
#2	24410.	1229.	874.8	192.2	3099.	8.336
#3	24420.	1230.	883.3	190.8	3105.	6.448

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156964-d-4-g@4 Acquired: 5/31/2018 14:53:55 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.692	.4826	163.3	F 5673.	44.96	11.33
Stddev	3.008	2.895	.9	24.	.53	.36
%RSD	81.46	600.0	.5644	.4164	1.168	3.218
#1	-.2661	-2.623	162.3	5647.	44.42	11.04
#2	-4.913	.9632	163.7	5694.	45.00	11.21
#3	-5.897	3.107	164.1	5677.	45.47	11.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	141.2	538.3	1301.	1941.
Stddev	.5	1.3	2.	32.
%RSD	.3404	.2400	.1252	1.665
#1	140.9	537.2	1300.	1967.
#2	141.0	539.7	1303.	1952.
#3	141.8	537.9	1300.	1905.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6850.4	43154.	9245.3
Stddev	50.2	344.	43.6
%RSD	.73282	.79598	.47169
#1	6804.7	42804.	9202.3
#2	6842.3	43169.	9244.1
#3	6904.1	43490.	9289.5

Sample Name: 460-156862-j-1-a@4 Acquired: 5/31/2018 14:57:43 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50590.	86.57	4.967	737.7	2.942	10400.
Stddev	288.	1.12	.395	5.8	.020	118.
%RSD	.5694	1.289	7.951	.7809	.6924	1.131
#1	50320.	87.21	5.350	743.3	2.936	10330.
#2	50890.	85.28	4.561	737.9	2.925	10530.
#3	50570.	87.21	4.989	731.8	2.964	10340.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.391	45.47	105.3	488.5	107900.	3183.
Stddev	.171	.34	1.2	1.7	983.	35.
%RSD	3.163	.7397	1.101	.3540	.9113	1.090
#1	5.582	45.46	104.6	490.4	107400.	3172.
#2	5.252	45.81	106.6	488.0	109000.	3222.
#3	5.340	45.14	104.6	487.0	107300.	3155.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20320.	3295.	828.1	99.46	1141.	-6.283
Stddev	195.	26.	11.2	.56	7.	1.516
%RSD	.9571	.7754	1.350	.5652	.5726	24.13
#1	20200.	3286.	824.2	99.91	1147.	-5.860
#2	20550.	3324.	840.7	99.65	1143.	-7.966
#3	20220.	3275.	819.5	98.83	1134.	-5.023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156862-j-1-a@4 Acquired: 5/31/2018 14:57:43 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.740	-2.693	155.9	2022.	162.1	3.212
Stddev	1.108	1.386	.8	14.	1.4	.307
%RSD	19.30	51.45	.5384	.7148	.8666	9.566
#1	-6.599	-3.961	156.1	2018.	162.9	2.995
#2	-4.489	-2.904	156.7	2038.	162.9	3.563
#3	-6.131	-1.214	155.0	2010.	160.5	3.077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.56	43.53	2284.	1509.
Stddev	.19	.13	8.	26.
%RSD	.3465	.3041	.3540	1.738
#1	53.44	43.67	2282.	1539.
#2	53.47	43.50	2293.	1488.
#3	53.78	43.41	2277.	1502.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7242.3	45158.	9322.1
Stddev	60.6	541.	156.4
%RSD	.83715	1.1987	1.6780
#1	7195.8	44913.	9418.9
#2	7220.1	44782.	9141.6
#3	7310.8	45778.	9405.8

Sample Name: 460-156806-b-1-a du Acquired: 5/31/2018 15:08:45 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1195.	.1583	-.1376	141.1	.0742	27970.
Stddev	12.	.5983	.3735	1.8	.0874	220.
%RSD	.9805	377.9	271.5	1.249	117.8	.7854

#1	1182.	.8316	-.1077	139.2	.1750	27760.
#2	1201.	-.3125	.2201	142.6	.0286	28200.
#3	1203.	-.0442	-.5251	141.5	.0190	27970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0048	.0815	2.588	1.749	1197.	30250.
Stddev	.0919	.0349	.113	.059	18.	168.
%RSD	1902.	42.81	4.351	3.387	1.533	.5544

#1	.0037	.0664	2.508	1.751	1176.	30060.
#2	-.1007	.0568	2.539	1.807	1208.	30370.
#3	.0825	.1215	2.716	1.689	1207.	30320.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47100.	106.9	80690.	2.323	-1.460	.8418
Stddev	428.	2.0	647.	.279	.155	1.686
%RSD	.9092	1.843	.8017	12.00	10.64	200.3

#1	46660.	104.6	79950.	2.175	-1.349	2.472
#2	47510.	107.8	81000.	2.149	-1.638	.9483
#3	47140.	108.3	81120.	2.644	-1.393	-.8951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156806-b-1-a du Acquired: 5/31/2018 15:08:45 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4574	3.313	5.850	2.102	200.8	.3421
Stddev	2.167	1.723	.116	.138	3.8	.1208
%RSD	473.8	52.00	1.985	6.562	1.903	35.31
#1	-1.237	5.227	5.910	2.002	196.5	.3532
#2	1.992	1.887	5.716	2.046	202.4	.2161
#3	-2.126	2.825	5.924	2.260	203.6	.4569

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3205	344.2	33.02	5840.
Stddev	.6014	2.7	.46	66.
%RSD	187.6	.7904	1.386	1.123
#1	-.3317	341.1	32.61	5771.
#2	.8533	345.6	32.95	5848.
#3	.4399	345.9	33.51	5901.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6958.9	43523.	9266.0
Stddev	32.9	373.	8.7
%RSD	.47345	.85678	.09386
#1	6992.3	43833.	9264.2
#2	6926.4	43109.	9258.3
#3	6957.9	43626.	9275.4

Sample Name: sd 460-156806-j-1-a Acquired: 5/31/2018 15:16:32 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	240.7	-.7379	-.0597	28.88	.0214	5768.
Stddev	6.4	1.011	.4109	.19	.0516	21.
%RSD	2.673	137.0	688.0	.6673	241.5	.3561
#1	247.0	-1.138	-.0379	29.05	.0391	5779.
#2	234.2	.4120	-.4811	28.93	-.0368	5781.
#3	241.0	-1.488	.3398	28.67	.0618	5745.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0221	-.1544	.6224	.8036	253.0	6045.
Stddev	.0246	.1670	.0297	.1881	1.2	88.
%RSD	111.1	108.2	4.766	23.41	.4685	1.462
#1	.0475	-.1306	.6353	.8600	251.8	6143.
#2	.0204	-.3320	.6434	.5937	253.0	5972.
#3	-.0016	-.0005	.5885	.9571	254.2	6021.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9372.	22.39	15980.	.9182	-.3926	.3804
Stddev	17.	.09	50.	.2185	.6050	1.509
%RSD	.1808	.3821	.3109	23.80	154.1	396.6
#1	9388.	22.30	16020.	1.055	.1450	2.105
#2	9374.	22.42	15980.	.6662	-.2750	-.2661
#3	9354.	22.46	15920.	1.034	-1.048	-.6974

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-156806-j-1-a Acquired: 5/31/2018 15:16:32 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.358	2.479	1.215	.3833	40.38	-.1475
Stddev	1.895	1.787	.033	.0898	.34	.1505
%RSD	80.34	72.09	2.714	23.43	.8386	102.0
#1	-4.073	3.317	1.185	.4488	40.68	-.3057
#2	-.3244	3.692	1.209	.4202	40.46	-.1306
#3	-2.677	.4268	1.250	.2809	40.01	-.0062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2647	71.07	6.979	1171.
Stddev	.2686	.70	.439	14.
%RSD	101.5	.9878	6.292	1.220
#1	-.5702	71.87	6.843	1161.
#2	-.0657	70.53	7.470	1166.
#3	-.1582	70.81	6.624	1188.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7123.0	44386.	9302.2
Stddev	16.9	33.	32.3
%RSD	.23726	.07503	.34740
#1	7142.4	44417.	9265.0
#2	7111.6	44392.	9323.4
#3	7115.0	44351.	9318.2

Sample Name: pds 460-156806-j-1-a Acquired: 5/31/2018 15:01:31 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3164.	1972.	47.53	2235.	48.59	48090.
Stddev	46.	9.	.56	17.	.39	331.
%RSD	1.457	.4743	1.169	.7739	.8047	.6888
#1	3209.	1982.	47.59	2254.	48.77	48450.
#2	3165.	1969.	46.95	2228.	48.85	48030.
#3	3117.	1964.	48.06	2222.	48.14	47790.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.80	523.1	208.9	246.9	2166.	49400.
Stddev	.36	3.6	1.1	2.0	14.	409.
%RSD	.6944	.6870	.5446	.8190	.6599	.8276
#1	52.21	527.2	209.1	248.9	2164.	49730.
#2	51.55	521.7	207.7	244.8	2152.	49530.
#3	51.62	520.4	210.0	247.1	2181.	48940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67700.	630.4	101000.	515.5	517.6	481.9
Stddev	369.	5.4	962.	5.3	4.8	4.0
%RSD	.5453	.8617	.9520	1.029	.9211	.8250
#1	68090.	636.4	102000.	521.5	522.9	486.5
#2	67640.	629.0	101000.	513.5	513.8	479.6
#3	67360.	625.7	100100.	511.5	516.1	479.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-156806-j-1-a Acquired: 5/31/2018 15:01:31 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1995.	2175.	520.0	534.6	695.0	517.0
Stddev	4.	15.	3.2	2.5	5.2	3.6
%RSD	.1852	.6966	.6063	.4760	.7466	.6951

#1	1997.	2192.	519.9	537.0	700.9	520.3
#2	1997.	2168.	516.9	531.9	693.0	517.5
#3	1991.	2164.	523.2	534.8	691.1	513.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	521.2	835.7	550.6	5916.
Stddev	4.8	7.4	4.9	92.
%RSD	.9130	.8908	.8917	1.558

#1	526.1	843.5	556.0	6017.
#2	521.0	834.8	549.6	5896.
#3	516.6	828.7	546.4	5836.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6885.2	42684.	9196.6
Stddev	9.5	56.	38.0
%RSD	.13866	.13231	.41276

#1	6874.3	42720.	9236.3
#2	6891.5	42713.	9160.7
#3	6890.0	42619.	9192.6

Sample Name: CCB Acquired: 5/31/2018 15:31:54 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.282	1.288	-.0589	.2575	-.0092	11.19
Stddev	19.47	1.171	.0645	.1918	.0708	8.91
%RSD	1518.	90.91	109.5	74.50	768.1	79.69

#1	23.61	1.513	-.0524	.4603	.0660	19.63
#2	-7.660	2.331	-.1265	.0790	-.0745	12.06
#3	-12.11	.0209	.0021	.2332	-.0191	1.867

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0570	-.2076	.5020	.6382	6.438	-22.13
Stddev	.0717	.1648	.1730	.2627	2.303	12.09
%RSD	125.8	79.39	34.46	41.17	35.77	54.61

#1	.1362	-.0754	.6711	.8528	9.043	-25.98
#2	-.0033	-.3922	.3254	.3452	4.671	-8.587
#3	.0381	-.1552	.5096	.7167	5.600	-31.82

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.283	.2118	13.04	.7995	.0982	1.347
Stddev	8.315	.1554	9.84	.1236	.9821	.473
%RSD	648.1	73.37	75.47	15.46	999.9	35.09

#1	8.101	.3895	21.02	.9374	1.149	1.892
#2	-4.214	.1016	16.05	.7624	-.7962	1.056
#3	-7.736	.1442	2.044	.6986	-.0584	1.093

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 15:31:54 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2669	.9354	.0238	-.8929	2.381	.8887
Stddev	2.375	2.232	.0847	.0747	.341	.5781
%RSD	889.8	238.6	355.8	8.362	14.33	65.05
#1	2.905	-.5364	.1211	-.8069	2.600	1.551
#2	-1.698	3.503	-.0161	-.9300	2.555	.6268
#3	-.4070	-.1609	-.0336	-.9417	1.988	.4880

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0071	.2858	2.600	2.289
Stddev	.5595	.2704	1.606	14.65
%RSD	7830.	94.62	61.78	640.0
#1	.4818	.5975	4.419	-13.11
#2	-.6174	.1453	2.002	3.937
#3	.1142	.1145	1.379	16.04

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7119.6	44893.	9178.4
Stddev	170.5	860.	131.7
%RSD	2.3942	1.9155	1.4345
#1	7313.5	45638.	9198.3
#2	6993.3	45091.	9299.0
#3	7051.9	43952.	9037.9

Sample Name: 460-156697-j-1-a Acquired: 5/31/2018 15:20:29 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57.45	-.3191	.2385	11.32	.0542	26250.
Stddev	6.64	.3032	.2990	.03	.0306	88.
%RSD	11.56	95.00	125.3	.2563	56.39	.3347

#1	60.57	-.6534	.2524	11.34	.0509	26170.
#2	61.96	-.0621	-.0671	11.29	.0254	26230.
#3	49.82	-.2418	.5303	11.34	.0864	26340.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0444	.0347	1.421	1.614	2546.	22480.
Stddev	.0085	.0734	.282	.097	38.	108.
%RSD	19.09	211.6	19.85	5.980	1.497	.4809

#1	.0357	-.0441	1.201	1.534	2554.	22420.
#2	.0449	.1013	1.739	1.721	2579.	22420.
#3	.0526	.0469	1.323	1.586	2504.	22610.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42850.	277.5	68480.	1.601	-.6328	.3654
Stddev	128.	1.1	288.	.328	.4620	1.420
%RSD	.2995	.4061	.4205	20.47	73.02	388.7

#1	42740.	277.4	68290.	1.278	-.4317	-.7957
#2	42810.	276.5	68330.	1.592	-1.161	-.0571
#3	42990.	278.7	68810.	1.934	-.3054	1.949

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156697-j-1-a Acquired: 5/31/2018 15:20:29 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.115	2.816	1.961	1.383	166.2	.3363
Stddev	2.265	.344	.107	.063	3.5	.0539
%RSD	107.1	12.22	5.473	4.586	2.081	16.04
#1	.4567	2.668	2.076	1.339	162.3	.3811
#2	-2.991	3.209	1.945	1.353	169.0	.2764
#3	-3.811	2.571	1.863	1.456	167.3	.3513

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3230	257.3	3.987	5545.
Stddev	.3065	1.4	.208	55.
%RSD	94.89	.5539	5.230	.9947
#1	.1928	256.5	4.201	5491.
#2	.6732	256.5	3.784	5541.
#3	.1031	259.0	3.976	5602.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6885.3	43056.	9255.2
Stddev	22.3	154.	50.3
%RSD	.32414	.35748	.54319
#1	6910.9	43182.	9309.5
#2	6874.9	43101.	9245.9
#3	6870.0	42884.	9210.2

Sample Name: CCV Acquired: 5/31/2018 15:28:10 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121700.	2446.	1199.	10070.	976.4	121400.
Stddev	441.	13.	6.	20.	2.4	292.
%RSD	.3627	.5211	.4827	.1962	.2464	.2401

#1	121300.	2432.	1195.	10040.	974.5	121200.
#2	121600.	2450.	1197.	10080.	975.6	121700.
#3	122200.	2456.	1206.	10080.	979.1	121200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1239.	2497.	4906.	12210.	97820.	48090.
Stddev	6.	9.	17.	78.	376.	195.
%RSD	.4908	.3584	.3373	.6350	.3847	.4047

#1	1232.	2488.	4887.	12140.	97410.	48020.
#2	1240.	2498.	4910.	12200.	97910.	47940.
#3	1244.	2506.	4919.	12300.	98140.	48310.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120200.	5054.	123200.	2518.	7461.	967.4
Stddev	557.	21.	360.	13.	25.	4.2
%RSD	.4635	.4060	.2921	.5093	.3397	.4320

#1	119600.	5032.	122900.	2503.	7436.	962.6
#2	120400.	5060.	123000.	2522.	7460.	969.6
#3	120600.	5072.	123600.	2528.	7487.	970.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 15:28:10 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2441.	2519.	2450.	2498.	974.7	2450.
Stddev	23.	13.	11.	7.	7.8	10.
%RSD	.9592	.5333	.4683	.2699	.8000	.4225

#1	2419.	2510.	2438.	2491.	968.4	2439.
#2	2438.	2512.	2450.	2504.	972.2	2450.
#3	2466.	2534.	2461.	2500.	983.4	2460.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	995.0	4913.	9843.	9442.
Stddev	3.4	22.	64.	85.
%RSD	.3451	.4503	.6510	.8968

#1	991.3	4902.	9791.	9381.
#2	998.1	4899.	9824.	9406.
#3	995.7	4939.	9915.	9539.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6735.3	42031.	8873.1
Stddev	46.6	258.	27.7
%RSD	.69213	.61316	.31257

#1	6774.8	42255.	8904.4
#2	6747.2	42090.	8851.5
#3	6683.9	41749.	8863.5

Sample Name: CCVL Acquired: 5/31/2018 15:35:54 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	165.0	12.83	8.407	192.7	1.726	4454.
Stddev	6.7	1.70	.078	7.8	.005	210.
%RSD	4.056	13.27	.9278	4.046	.3012	4.710

#1	157.8	13.89	8.457	188.2	1.721	4286.
#2	166.3	10.86	8.446	188.1	1.731	4388.
#3	171.0	13.72	8.317	201.7	1.727	4689.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.813	47.46	9.730	22.25	164.4	4053.
Stddev	.159	1.97	.945	1.08	5.4	11.
%RSD	4.175	4.140	9.716	4.859	3.306	.2592

#1	3.663	46.02	8.643	21.40	161.2	4062.
#2	3.796	46.66	10.36	21.87	161.3	4041.
#3	3.980	49.70	10.19	23.46	170.7	4055.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4336.	14.59	4156.	39.61	8.536	18.73
Stddev	211.	.74	10.	1.80	.719	.39
%RSD	4.872	5.094	.2508	4.546	8.423	2.087

#1	4174.	14.01	4148.	38.25	8.734	19.04
#2	4259.	14.33	4168.	38.93	9.135	18.85
#3	4575.	15.43	4153.	41.65	7.738	18.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 15:35:54 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.13	21.96	45.40	28.87	44.65	18.31
Stddev	1.25	1.75	1.94	1.36	2.44	.55
%RSD	7.324	7.995	4.277	4.721	5.473	3.006

#1	16.29	20.72	43.89	28.07	43.31	17.79
#2	16.53	21.19	44.72	28.09	43.17	18.25
#3	18.57	23.96	47.59	30.44	47.47	18.89

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	46.43	17.49	19.61	F -5.078
Stddev	1.89	.14	.77	12.84
%RSD	4.073	.8039	3.946	252.9

#1	45.14	17.57	19.02	-12.08
#2	45.55	17.58	19.34	-12.90
#3	48.60	17.33	20.49	9.743

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7146.4	44456.	9406.8
Stddev	222.1	1558.	110.8
%RSD	3.1082	3.5035	1.1782

#1	7268.9	45684.	9485.0
#2	7280.2	44980.	9455.5
#3	6890.0	42704.	9280.0

Sample Name: CCB Acquired: 5/31/2018 16:23:43 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.449	.0184	-.0083	.5271	-.0012	24.97
Stddev	12.10	.8658	.0514	.1386	.0364	5.85
%RSD	271.9	4717.	621.7	26.30	2984.	23.44
#1	5.953	.9046	.0497	.6342	.0221	30.69
#2	-17.73	-.0240	-.0259	.3705	.0175	18.99
#3	-1.574	-.8255	-.0485	.5765	-.0432	25.22

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0566	.0753	.3348	.1814	7.022	16.08
Stddev	.1362	.0958	.3068	.2880	6.417	1.43
%RSD	240.7	127.3	91.64	158.8	91.38	8.899
#1	.2119	.0555	.4269	-.0090	14.18	17.57
#2	-.0423	-.0091	-.0075	.0404	5.094	14.71
#3	.0002	.1795	.5850	.5127	1.790	15.96

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.381	.1815	48.73	.2500	-.1058	-.2957
Stddev	3.638	.0586	7.35	.3532	1.650	.8464
%RSD	263.4	32.28	15.09	141.3	1559.	286.2
#1	1.485	.2213	55.89	.5034	.0079	.0632
#2	-5.473	.1142	49.11	-.1534	1.484	.3120
#3	-.1548	.2090	41.20	.4001	-1.810	-1.262

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 16:23:43 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.799	1.085	.2507	-.8553	2.762	1.194
Stddev	1.293	.661	.1867	.1584	1.418	.606
%RSD	71.89	60.96	74.48	18.52	51.35	50.76
#1	2.906	.4413	.1610	-.7339	1.551	1.893
#2	2.114	1.763	.4654	-.7975	4.323	.8037
#3	.3773	1.051	.1258	-1.035	2.413	.8867

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3074	.2852	2.501	19.71
Stddev	.1031	.0824	1.169	32.60
%RSD	33.52	28.88	46.72	165.4
#1	.2600	.3764	3.837	-14.59
#2	.4257	.2628	1.995	50.29
#3	.2367	.2163	1.670	23.41

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7035.6	45181.	9311.4
Stddev	273.1	1405.	207.9
%RSD	3.8814	3.1103	2.2333
#1	7321.5	46460.	9343.0
#2	6777.4	45406.	9501.7
#3	7008.1	43677.	9089.4

Sample Name: 460-156697-j-6-a Acquired: 5/31/2018 15:55:48 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	177.6	-5172	-3499	54.51	-0360	204700.
Stddev	10.4	1.384	.5935	.73	.0898	857.
%RSD	5.855	267.6	169.6	1.347	249.3	.4188

#1	187.0	-2.100	-.6393	54.17	-.1092	204200.
#2	179.3	.0846	.3328	54.01	-.0632	205700.
#3	166.4	.4640	-.7430	55.35	.0643	204200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3699	.2313	.2305	14.53	26200.	28850.
Stddev	.1828	.1922	.1772	.12	149.	158.
%RSD	49.42	83.11	76.88	.8306	.5678	.5461

#1	-.1611	.3981	.3125	14.59	26110.	28920.
#2	-.4473	.0211	.3519	14.39	26380.	28960.
#3	-.5013	.2745	.0271	14.61	26120.	28670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70020.	1118.	F 299100.	27.98	.6820	-1.464
Stddev	462.	7.	3745.	1.31	1.068	.390
%RSD	.6594	.5940	1.252	4.677	156.6	26.66

#1	69700.	1113.	301500.	28.09	1.639	-1.832
#2	70550.	1126.	300900.	26.62	.8768	-1.504
#3	69810.	1116.	294800.	29.23	-.4703	-1.055

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156697-j-6-a Acquired: 5/31/2018 15:55:48 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.054	3.131	4.221	12.49	434.0	-4295
Stddev	1.818	1.884	.409	.11	4.7	.1027
%RSD	88.50	60.19	9.700	.8973	1.082	23.90
#1	-2.446	5.289	4.618	12.50	431.8	-4333
#2	-3.644	2.296	4.245	12.38	430.9	-3250
#3	-.0723	1.808	3.800	12.60	439.4	-5302

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4638	836.5	10.03	16410.
Stddev	.7846	6.3	.56	122.
%RSD	169.2	.7503	5.582	.7444
#1	.4994	837.4	9.899	16280.
#2	-.3380	842.4	10.64	16420.
#3	1.230	829.9	9.548	16520.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6494.1	40795.	9099.9
Stddev	27.8	238.	114.0
%RSD	.42791	.58301	1.2528
#1	6495.1	41021.	8973.0
#2	6521.4	40547.	9133.0
#3	6465.8	40817.	9193.7

Sample Name: 460-156697-j-7-a Acquired: 5/31/2018 15:59:51 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.32	-1.472	.2046	562.8	.0206	194000.
Stddev	3.48	2.072	.2873	3.8	.0691	3996.
%RSD	9.082	140.8	140.4	.6741	335.3	2.059

#1	35.47	-2.430	.5241	561.7	.0847	189700.
#2	42.20	-2.892	.1221	567.0	.0298	194800.
#3	37.29	.9058	-.0324	559.7	-.0526	197600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0099	-.0538	-.7404	1.376	87.04	37210.
Stddev	.0679	.0571	.5977	.321	10.49	197.
%RSD	687.4	106.1	80.72	23.34	12.05	.5286

#1	-.0872	-.0877	-.1890	1.005	99.11	37090.
#2	.0404	.0121	-1.375	1.555	80.13	37110.
#3	.0171	-.0857	-.6569	1.567	81.87	37440.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97630.	439.1	F 619500.	.8278	-5.435	-.8418
Stddev	1646.	6.9	2220.	.3614	1.812	2.037
%RSD	1.686	1.579	.3583	43.66	33.35	242.0

#1	95800.	431.7	618300.	.4847	-6.445	-.0936
#2	98120.	440.3	618000.	1.205	-3.342	.7159
#3	98980.	445.4	622000.	.7936	-6.516	-3.148

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156697-j-7-a Acquired: 5/31/2018 15:59:51 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.883	4.215	1.488	2.348	348.7	-.0498
Stddev	3.380	1.191	.277	.113	3.4	.1896
%RSD	179.6	28.25	18.63	4.826	.9726	381.0
#1	-2.485	4.054	1.554	2.317	348.4	.1175
#2	1.759	3.112	1.183	2.254	352.3	-.0111
#3	-4.921	5.477	1.725	2.474	345.5	-.2558

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0964	1304.	2.627	9890.
Stddev	.7765	3.	.235	331.
%RSD	805.6	.2421	8.938	3.349
#1	.4649	1301.	2.461	9955.
#2	.2284	1303.	2.525	10180.
#3	-.9825	1307.	2.896	9531.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6374.1	39613.	9044.8
Stddev	82.9	473.	207.5
%RSD	1.2999	1.1947	2.2939
#1	6344.5	40158.	9231.2
#2	6310.0	39366.	9081.9
#3	6467.6	39314.	8821.3

Sample Name: 460-156657-a-27-b Acquired: 5/31/2018 16:35:20 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7853.	6.605	-4343	278.0	.2201	F 805100.
Stddev	114.	.867	.2978	2.7	.0251	11190.
%RSD	1.456	13.12	68.56	.9703	11.42	1.390

#1	7735.	7.462	-.0952	274.9	.2489	792200.
#2	7862.	6.625	-.5544	279.7	.2024	810400.
#3	7963.	5.729	-.6533	279.4	.2091	812600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	351.0	22.76	-3.193	6.019	3504.	3371.
Stddev	3.1	.58	.154	.294	57.	54.
%RSD	.8955	2.552	4.821	4.894	1.640	1.609

#1	347.4	22.09	-3.294	5.756	3451.	3329.
#2	352.6	23.07	-3.016	5.963	3496.	3351.
#3	353.0	23.12	-3.270	6.337	3565.	3432.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	964.8	49.42	73120.	28.34	-4.593	5.205
Stddev	14.5	1.23	898.	.47	.991	.350
%RSD	1.502	2.480	1.228	1.666	21.57	6.730

#1	951.9	48.42	72250.	27.96	-3.986	5.428
#2	962.1	49.05	73090.	28.18	-5.736	5.386
#3	980.5	50.79	74040.	28.87	-4.056	4.801

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-27-b Acquired: 5/31/2018 16:35:20 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.57	5.019	6.012	714.7	4.763	53.41
Stddev	1.26	2.501	.446	7.6	.371	1.12
%RSD	10.01	49.83	7.414	1.057	7.797	2.089
#1	13.74	7.353	5.506	706.2	4.630	52.18
#2	11.24	5.324	6.344	717.3	4.477	53.71
#3	12.74	2.380	6.187	720.6	5.183	54.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.713	215.9	212.2	3948.
Stddev	.136	2.8	3.7	31.
%RSD	7.953	1.320	1.734	.7840
#1	1.578	213.1	208.4	3924.
#2	1.850	215.7	212.4	3983.
#3	1.712	218.8	215.7	3937.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6431.2	40979.	9211.4
Stddev	43.9	380.	113.1
%RSD	.68328	.92658	1.2278
#1	6481.6	41395.	9334.8
#2	6400.5	40890.	9186.7
#3	6411.7	40651.	9112.7

Sample Name: 460-156657-a-30-b Acquired: 5/31/2018 16:47:30 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	377.0	3.237	.2357	457.5	.0359	F 1077000.
Stddev	5.3	2.307	.2722	1.9	.0301	8785.
%RSD	1.406	71.28	115.5	.4245	83.89	.8156
#1	382.6	1.411	.3896	455.5	.0415	1084000.
#2	376.4	2.470	.3960	457.7	.0628	1067000.
#3	372.1	5.830	-.0786	459.4	.0034	1080000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.70	5.443	-8.699	33.87	7454.	7286.
Stddev	.35	.118	.327	.27	71.	77.
%RSD	.6453	2.168	3.759	.8080	.9569	1.056
#1	54.67	5.549	-8.460	34.19	7456.	7375.
#2	54.36	5.316	-8.565	33.68	7382.	7238.
#3	55.06	5.465	-9.071	33.75	7525.	7245.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1060.	1952.	90480.	9.156	-1.990	-.8228
Stddev	19.	3.	906.	.431	1.143	1.453
%RSD	1.761	.1355	1.001	4.707	57.44	176.6
#1	1053.	1955.	91520.	9.645	-3.106	-1.020
#2	1047.	1952.	90050.	8.993	-.8214	-2.168
#3	1082.	1950.	89860.	8.830	-2.044	.7190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-30-b Acquired: 5/31/2018 16:47:30 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.30	3.202	3.668	33.42	9.033	25.79
Stddev	1.75	3.915	.552	.49	.449	.21
%RSD	14.24	122.3	15.05	1.476	4.971	.8268

#1	10.33	6.909	3.363	32.85	8.733	25.67
#2	13.68	-.8928	4.305	33.70	8.817	25.66
#3	12.89	3.590	3.335	33.70	9.549	26.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0194	318.0	19.50	2240.
Stddev	.2540	3.6	.26	15.
%RSD	1310.	1.143	1.313	.6785

#1	.2735	322.1	19.23	2257.
#2	-.1790	316.5	19.56	2235.
#3	-.1527	315.3	19.73	2228.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6281.1	39739.	9009.1
Stddev	16.8	138.	11.8
%RSD	.26679	.34633	.13106

#1	6298.3	39614.	9000.8
#2	6280.0	39714.	9003.8
#3	6264.9	39887.	9022.6

Sample Name: Z 460-156657-a-28-b Acquired: 5/31/2018 16:39:20 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 645.2	k 5.450	k -.4845	786.3	k .0927	F 1054000.
Stddev	133.2	1.523	.2759	16.0	.0488	28390.
%RSD	20.64	27.94	56.94	2.030	52.71	2.692
#1	k 492.7	k 7.039	k -.3531	799.7	k .0383	1030000.
#2	738.2	5.308	-.2989	790.7	.1069	1086000.
#3	704.8	4.004	-.8016	768.7	.1328	1047000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 15.85	k 2.823	k -8.584	k 8.162	k 8103.	k 4605.
Stddev	1.23	.190	.391	.156	90.	989.
%RSD	7.775	6.713	4.557	1.911	1.111	21.47
#1	k 17.24	k 2.955	k -8.338	k 8.123	k 8062.	k 3464.
#2	15.39	2.908	-9.035	8.028	8207.	5197.
#3	14.91	2.606	-8.379	8.333	8042.	5155.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 885.0	k 1054.	^ *****	k 10.52	k -5.139	k 1.020
Stddev	7.7	18.	----	.25	.642	1.689
%RSD	.8664	1.715	----	2.337	12.49	165.6
#1	k 889.6	k 1044.	^ ----	k 10.69	k -5.875	k 2.865
#2	889.3	1075.	91820.	10.64	-4.847	.6442
#3	876.2	1044.	89240.	10.24	-4.696	-.4494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Z 460-156657-a-28-b Acquired: 5/31/2018 16:39:20 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 15.50	k 4.250	k 2.703	k 20.58	k 6.223	k 42.20
Stddev	.61	2.495	.783	.41	.637	1.04
%RSD	3.946	58.70	28.99	2.016	10.23	2.460
#1	k 16.11	k 5.880	k 1.831	k 20.83	k 6.214	k 42.60
#2	15.49	5.492	3.347	20.81	6.864	42.97
#3	14.89	1.378	2.931	20.11	5.591	41.02

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	k 1.034	^ *****	k 46.60	k 1979.
Stddev	.418	-----	.39	266.
%RSD	40.40	-----	.8474	13.42
#1	k 1.441	^ -----	k 46.59	k 1675.
#2	1.053	312.5	47.00	2168.
#3	.6066	303.2	46.21	2094.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6231.4	39542.	9500.7
Stddev	51.2	303.	954.0
%RSD	.82155	.76550	10.041
#1	6179.8	39568.	10601.
#2	6232.2	39227.	8902.1
#3	6282.2	39830.	8999.1

Sample Name: 460-156657-a-26-b Acquired: 5/31/2018 17:03:23 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	406.0	13.96	-8381	860.4	.0329	F 1069000.
Stddev	3.5	.83	.3317	7.6	.0127	4494.
%RSD	.8607	5.946	39.57	.8871	38.52	.4204

#1	403.7	14.86	-.5146	858.0	.0425	1065000.
#2	404.2	13.22	-1.177	854.4	.0185	1074000.
#3	410.0	13.79	-.8223	869.0	.0375	1068000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.279	.8864	-8.493	5.801	13840.	5220.
Stddev	.148	.1728	.278	.142	124.	23.
%RSD	6.501	19.49	3.273	2.446	.8978	.4361

#1	2.429	.8790	-8.177	5.696	13690.	5211.
#2	2.275	1.063	-8.699	5.962	13930.	5246.
#3	2.133	.7174	-8.602	5.743	13890.	5204.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1036.	1644.	87140.	5.828	-6.759	.3103
Stddev	10.	14.	371.	.527	.110	2.251
%RSD	.9986	.8497	.4252	9.050	1.626	725.6

#1	1030.	1633.	87240.	5.628	-6.875	-2.123
#2	1048.	1660.	87450.	6.426	-6.656	.7344
#3	1030.	1641.	86730.	5.430	-6.746	2.320

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-26-b Acquired: 5/31/2018 17:03:23 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.75	2.868	4.570	11.48	6.540	19.33
Stddev	1.38	1.261	.270	.26	.335	.14
%RSD	11.71	43.95	5.897	2.230	5.128	.7067

#1	12.44	2.326	4.725	11.19	6.267	19.35
#2	10.17	4.309	4.726	11.68	6.439	19.45
#3	12.65	1.969	4.259	11.57	6.914	19.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.692	316.5	22.65	3256.
Stddev	.436	2.0	.36	68.
%RSD	16.18	.6313	1.593	2.091

#1	3.119	317.3	22.41	3236.
#2	2.249	318.0	23.06	3331.
#3	2.709	314.3	22.48	3200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6345.6	39894.	9023.8
Stddev	32.3	219.	61.7
%RSD	.50892	.54940	.68371

#1	6331.2	39943.	9031.4
#2	6382.6	39654.	9081.3
#3	6322.9	40084.	8958.6

Sample Name: CCV Acquired: 5/31/2018 17:11:26 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	119300.	2436.	1194.	9982.	958.4	120300.
Stddev	1872.	15.	14.	66.	16.2	1296.
%RSD	1.569	.6321	1.163	.6584	1.688	1.077

#1	118200.	2451.	1184.	10050.	950.7	119200.
#2	121400.	2420.	1210.	9921.	977.0	121700.
#3	118100.	2436.	1189.	9973.	947.5	120000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1230.	2479.	4875.	12100.	96990.	47230.
Stddev	8.	16.	55.	146.	1137.	708.
%RSD	.6551	.6371	1.138	1.207	1.173	1.500

#1	1238.	2495.	4836.	12030.	96100.	46820.
#2	1222.	2463.	4939.	12270.	98270.	48050.
#3	1230.	2478.	4851.	12010.	96580.	46830.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	119800.	5016.	120800.	2501.	7402.	960.8
Stddev	1420.	58.	1844.	15.	38.	7.1
%RSD	1.185	1.156	1.526	.6032	.5183	.7424

#1	118800.	4973.	120000.	2517.	7442.	968.3
#2	121400.	5082.	123000.	2487.	7365.	954.1
#3	119200.	4993.	119600.	2499.	7400.	960.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 17:11:26 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2424.	2495.	2432.	2479.	964.1	2426.
Stddev	17.	19.	28.	14.	7.0	11.
%RSD	.7137	.7689	1.131	.5683	.7219	.4687
#1	2439.	2516.	2414.	2491.	971.2	2438.
#2	2405.	2479.	2464.	2464.	957.3	2416.
#3	2428.	2489.	2418.	2482.	963.7	2423.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	985.0	4844.	9799.	9561.
Stddev	7.5	71.	112.	54.
%RSD	.7621	1.467	1.138	.5690
#1	991.9	4804.	9735.	9608.
#2	977.0	4926.	9927.	9502.
#3	986.0	4802.	9734.	9575.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6779.5	42221.	9251.6
Stddev	33.2	363.	165.3
%RSD	.48993	.85922	1.7862
#1	6742.4	42511.	9341.3
#2	6806.6	41814.	9060.9
#3	6789.4	42337.	9352.7

Sample Name: 460-156657-a-30-b@5 Acquired: 5/31/2018 17:07:26 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102.2	.6002	-.0563	93.97	-.0002	220600.
Stddev	7.6	.4905	.3334	.32	.0168	1983.
%RSD	7.429	81.73	592.5	.3389	7730.	.8988
#1	101.6	.3669	-.0656	93.61	-.0070	219000.
#2	110.1	1.164	-.3849	94.23	.0189	220000.
#3	94.97	.2699	.2817	94.06	-.0126	222800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.53	1.072	-1.191	7.063	1552.	1390.
Stddev	.13	.233	.057	.312	30.	45.
%RSD	1.169	21.76	4.807	4.413	1.909	3.232
#1	11.49	1.332	-1.126	6.704	1522.	1344.
#2	11.42	.8809	-1.234	7.232	1553.	1391.
#3	11.68	1.004	-1.213	7.254	1581.	1434.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	221.2	399.6	17250.	2.580	-.9392	-1.315
Stddev	1.6	4.0	136.	.580	1.273	1.360
%RSD	.7188	1.003	.7900	22.47	135.5	103.4
#1	223.0	396.3	17100.	3.152	-.4460	-2.724
#2	220.1	398.5	17280.	1.992	-2.385	-1.211
#3	220.5	404.1	17370.	2.598	.0135	-.0096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-30-b@5 Acquired: 5/31/2018 17:07:26 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.220	1.997	.6314	7.696	2.643	4.948
Stddev	2.118	2.351	.0966	.109	.504	.194
%RSD	65.77	117.8	15.30	1.420	19.07	3.920
#1	5.049	-.0722	.5570	7.752	2.776	4.821
#2	3.710	4.554	.5967	7.570	2.085	5.172
#3	.8998	1.508	.7405	7.766	3.067	4.852

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0615	64.40	5.013	446.6
Stddev	.5781	1.65	.144	27.2
%RSD	939.3	2.558	2.882	6.095
#1	.5975	63.07	4.852	440.0
#2	-.4832	63.90	5.056	423.3
#3	-.2989	66.25	5.131	476.5

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6746.2	42508.	9149.0
Stddev	29.4	304.	22.1
%RSD	.43587	.71597	.24176
#1	6764.8	42759.	9169.2
#2	6761.4	42595.	9152.4
#3	6712.3	42169.	9125.4

Sample Name: 460-156901-a-16-g@4 Acquired: 5/31/2018 19:27:20 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23940.	5.299	-6187	203.1	1.922	12580.
Stddev	119.	1.364	.2437	1.7	.024	68.
%RSD	.4974	25.74	39.39	.8468	1.251	.5369
#1	23880.	6.848	-.5393	201.1	1.898	12540.
#2	23860.	4.768	-.8922	204.0	1.924	12540.
#3	24080.	4.279	-.4246	204.2	1.946	12650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8240	26.09	73.66	82.49	57490.	2597.
Stddev	.1107	.39	.28	1.22	412.	2.
%RSD	13.44	1.511	.3775	1.481	.7164	.0660
#1	-.8595	25.70	73.34	82.05	57220.	2597.
#2	-.6999	26.48	73.80	81.55	57280.	2596.
#3	-.9127	26.09	73.84	83.87	57960.	2599.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9563.	1550.	793.7	54.12	45.53	-5.012
Stddev	80.	10.	7.7	.19	.62	.924
%RSD	.8400	.6645	.9678	.3565	1.361	18.43
#1	9506.	1543.	786.5	54.09	45.12	-5.110
#2	9528.	1546.	792.7	53.95	45.22	-4.043
#3	9655.	1562.	801.8	54.33	46.24	-5.884

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156901-a-16-g@4 Acquired: 5/31/2018 19:27:20 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.571	-1.138	120.0	137.9	32.53	.5791
Stddev	2.234	1.205	1.5	1.2	.45	.0586
%RSD	86.91	105.9	1.215	.8443	1.378	10.11
#1	-3.117	-1.675	118.6	138.5	32.87	.5596
#2	-4.481	-7.602	119.8	136.5	32.02	.6449
#3	-.1140	-2.488	121.5	138.6	32.70	.5328

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.040	49.96	2388.	1368.
Stddev	.525	.33	18.	43.
%RSD	8.689	.6604	.7518	3.131
#1	6.608	50.11	2378.	1336.
#2	5.573	49.58	2378.	1351.
#3	5.938	50.18	2409.	1416.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7289.2	45021.	9203.5
Stddev	5.9	385.	129.3
%RSD	.08032	.85434	1.4052
#1	7295.4	44585.	9101.8
#2	7283.7	45314.	9159.6
#3	7288.7	45163.	9349.0

Sample Name: CCB Acquired: 5/31/2018 18:05:30 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.523	.1749	.2485	.3819	-.0071	14.73
Stddev	8.323	.2462	.2501	.2440	.0973	9.82
%RSD	236.2	140.8	100.7	63.89	1369.	66.63
#1	5.812	-.1029	.2510	.6596	.1006	25.84
#2	-10.17	.3662	-.0029	.2023	-.0332	11.14
#3	-6.212	.2615	.4974	.2836	-.0887	7.218

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0976	.0271	.2884	.1663	20.55	7.675
Stddev	.0454	.1152	.2966	.2926	7.38	33.77
%RSD	46.54	424.4	102.9	175.9	35.92	440.0
#1	.1279	.0794	.5414	.5042	29.08	-5.984
#2	.0454	-.1049	-.0380	-.0031	16.21	-17.12
#3	.1196	.1070	.3616	-.0021	16.37	46.13

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.428	.1961	38.97	.6067	-.4175	.7011
Stddev	5.704	.1655	16.43	.4661	.2336	.7782
%RSD	128.8	84.40	42.15	76.83	55.96	111.0
#1	1.459	.3834	57.83	.9425	-.1539	1.599
#2	-4.815	.0698	31.30	.0745	-.5990	.2285
#3	-9.929	.1350	27.78	.8030	-.4994	.2755

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 18:05:30 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6332	2.351	-.0158	-.8182	1.921	1.051
Stddev	1.333	1.856	.2314	.1475	.714	.761
%RSD	210.5	78.96	1461.	18.03	37.15	72.39
#1	.9822	.2496	.2504	-.6503	1.400	1.901
#2	1.757	3.034	-.1685	-.9270	1.629	.8179
#3	-.8397	3.768	-.1294	-.8774	2.735	.4340

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0928	.1847	2.431	13.48
Stddev	.4994	.3450	1.424	17.17
%RSD	538.4	186.8	58.59	127.4
#1	.6662	.5216	4.023	-2.483
#2	-.1412	.2003	1.994	11.28
#3	-.2467	-.1679	1.277	31.64

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7154.2	44161.	9193.0
Stddev	168.7	1124.	175.4
%RSD	2.3585	2.5443	1.9081
#1	7289.7	44925.	9253.3
#2	7207.6	44688.	9330.3
#3	6965.2	42871.	8995.4

Sample Name: 460-157010-e-6-a@4 Acquired: 5/31/2018 19:15:41 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90880.	166.5	-7770	437.0	2.397	854.0
Stddev	255.	1.1	.3719	5.7	.069	6.4
%RSD	.2800	.6627	47.87	1.294	2.882	.7445
#1	91020.	166.8	-.5068	440.8	2.469	859.1
#2	90590.	167.4	-1.201	439.6	2.392	856.0
#3	91040.	165.3	-.6231	430.5	2.331	846.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.207	33.48	41.51	37.68	52210.	1038.
Stddev	.023	.63	.35	.24	338.	19.
%RSD	1.906	1.879	.8392	.6254	.6477	1.812
#1	-1.228	34.13	41.91	37.94	52210.	1049.
#2	-1.182	33.44	41.26	37.49	52540.	1049.
#3	-1.210	32.88	41.37	37.60	51860.	1016.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2782.	467.9	452.0	96.06	42.73	.1072
Stddev	28.	2.9	5.8	.55	.44	1.580
%RSD	1.009	.6291	1.289	.5761	1.030	1474.
#1	2802.	467.6	457.2	96.61	42.27	-.3866
#2	2794.	471.0	445.7	96.07	42.77	-1.167
#3	2750.	465.1	453.2	95.50	43.15	1.875

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-e-6-a@4 Acquired: 5/31/2018 19:15:41 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.096	-2.075	66.41	127.1	4.476	.9368
Stddev	2.418	1.490	.76	3.3	.647	.1616
%RSD	78.09	718.4	1.143	2.594	14.46	17.25
#1	-1.176	-1.868	66.53	130.8	4.591	.9784
#2	-5.812	1.015	67.10	124.8	3.778	.7585
#3	-2.301	.2302	65.60	125.6	5.057	1.074

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.121	10.47	742.9	561.3
Stddev	.597	.05	3.1	3.0
%RSD	14.48	.5158	.4132	.5387
#1	4.455	10.52	744.8	557.8
#2	3.432	10.48	744.5	563.4
#3	4.475	10.41	739.3	562.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7383.5	44657.	9245.8
Stddev	93.9	582.	101.2
%RSD	1.2723	1.3030	1.0941
#1	7287.5	44305.	9173.1
#2	7387.9	44337.	9203.0
#3	7475.2	45329.	9361.3

Sample Name: CCB Acquired: 5/31/2018 18:56:12 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.272	.0974	.0597	.0690	-.0398	6.414
Stddev	4.715	1.193	.2847	.0784	.0225	7.168
%RSD	110.3	1225.	476.7	113.5	56.53	111.8
#1	7.162	-1.256	-.1619	.0076	-.0138	14.60
#2	6.823	.5532	.3808	.0422	-.0534	3.371
#3	-1.168	.9954	-.0398	.1573	-.0523	1.268

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0582	-.0387	.1048	-.1836	4.568	-10.94
Stddev	.0535	.1065	.3514	.1663	6.963	14.00
%RSD	91.88	275.3	335.2	90.58	152.4	128.0
#1	.1133	.0443	.2593	-.3096	11.22	-20.31
#2	.0066	-.0016	.3526	-.2460	-2.666	-17.65
#3	.0547	-.1588	-.2974	.0049	5.144	5.161

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.296	.0923	34.50	-.0167	-.4579	.5874
Stddev	3.690	.0376	4.19	.5143	.1783	1.440
%RSD	160.7	40.75	12.14	3071.	38.94	245.2
#1	-4.426	.0691	36.44	-.2680	-.2731	2.048
#2	-4.428	.0721	29.70	-.3571	-.6288	.5454
#3	1.965	.1357	37.37	.5749	-.4717	-.8312

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 18:56:12 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8394	2.023	-.0068	-.2893	1.520	.9832
Stddev	.2822	.871	.3955	.1918	.095	.6664
%RSD	33.62	43.05	5795.	66.28	6.238	67.78
#1	1.164	2.774	.0842	-.0832	1.415	1.605
#2	.6985	1.068	-.4399	-.4624	1.600	1.064
#3	.6554	2.228	.3353	-.3224	1.545	.2799

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1494	.0843	2.093	7.448
Stddev	.2928	.0786	1.116	6.228
%RSD	196.0	93.18	53.34	83.63
#1	-.4864	.1471	3.305	9.136
#2	-.0047	-.0038	1.866	.5493
#3	.0429	.1097	1.107	12.66

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7230.4	44715.	9288.9
Stddev	13.3	122.	88.6
%RSD	.18415	.27344	.95422
#1	7218.7	44667.	9234.0
#2	7244.9	44853.	9391.1
#3	7227.5	44624.	9241.4

Sample Name: lcssrm 460-523656/2- Acquired: 5/31/2018 17:27:25 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38470.	294.5	253.1	983.3	299.5	22720.
Stddev	357.	3.4	1.3	2.8	2.3	221.
%RSD	.9269	1.145	.5152	.2850	.7515	.9742
#1	38860.	298.4	254.6	984.2	301.9	22970.
#2	38160.	292.4	252.0	980.2	297.5	22540.
#3	38380.	292.8	252.8	985.6	299.0	22650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1312.	245.3	335.1	576.5	69560.	9202.
Stddev	4.	.9	3.6	1.5	641.	77.
%RSD	.2831	.3475	1.064	.2566	.9207	.8375
#1	1311.	245.4	339.1	577.9	70280.	9283.
#2	1308.	244.4	332.2	575.0	69050.	9130.
#3	1316.	246.1	334.1	576.7	69360.	9192.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10750.	1144.	11440.	824.5	898.4	353.3
Stddev	94.	10.	109.	4.3	5.4	.8
%RSD	.8719	.8561	.9490	.5255	.6013	.2347
#1	10860.	1155.	11560.	824.9	899.4	353.9
#2	10670.	1136.	11350.	819.9	892.5	352.3
#3	10740.	1141.	11410.	828.5	903.2	353.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcssrm 460-523656/2- Acquired: 5/31/2018 17:27:25 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	752.5	1099.	635.3	647.5	626.9	407.9
Stddev	4.3	4.	5.0	4.9	2.0	2.5
%RSD	.5704	.3695	.7866	.7642	.3165	.6197
#1	755.2	1096.	641.0	644.3	627.1	406.4
#2	747.5	1097.	631.7	645.0	624.8	406.6
#3	754.8	1103.	633.2	653.2	628.7	410.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	753.0	468.2	3453.	616.2
Stddev	5.1	4.6	20.	14.4
%RSD	.6804	.9791	.5788	2.342
#1	750.7	473.3	3475.	608.2
#2	749.5	464.4	3435.	632.8
#3	758.9	466.9	3450.	607.5

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7197.1	45002.	9544.1
Stddev	42.3	887.	193.1
%RSD	.58744	1.9715	2.0229
#1	7150.1	43978.	9336.2
#2	7232.0	45540.	9717.7
#3	7209.2	45489.	9578.3

Sample Name: 460-156768-d-1-c@4 Acquired: 5/31/2018 17:53:46 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41350.	15.40	-5238	208.7	2.421	F 493600.
Stddev	306.	1.78	.1448	2.9	.080	3456.
%RSD	.7394	11.58	27.64	1.385	3.310	.7002

#1	41710.	17.29	-.3609	210.4	2.443	495100.
#2	41150.	13.74	-.5729	210.3	2.487	489600.
#3	41210.	15.19	-.6377	205.3	2.332	496000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3457	17.16	72.61	302.0	52780.	6017.
Stddev	.0527	.33	.40	4.2	200.	56.
%RSD	15.24	1.912	.5557	1.405	.3795	.9359

#1	-.4064	17.17	73.05	306.7	53010.	6080.
#2	-.3182	17.49	72.51	300.6	52680.	5971.
#3	-.3124	16.83	72.26	298.6	52660.	6000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19070.	1045.	2193.	42.62	25.80	-4.157
Stddev	100.	5.	15.	1.03	1.94	.924
%RSD	.5239	.4399	.7014	2.425	7.507	22.23

#1	19180.	1050.	2210.	42.38	24.24	-5.102
#2	19050.	1042.	2179.	43.75	27.97	-3.255
#3	18990.	1042.	2191.	41.73	25.19	-4.113

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156768-d-1-c@4 Acquired: 5/31/2018 17:53:46 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.262	-6.601	52.12	2544.	109.0	4.428
Stddev	3.561	1.889	.73	13.	1.6	.279
%RSD	83.55	286.1	1.397	.4983	1.473	6.289
#1	-6.667	-2.578	52.85	2550.	107.9	4.107
#2	-.1714	1.198	51.39	2552.	110.9	4.579
#3	-5.947	-.6008	52.11	2529.	108.4	4.599

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.33	2607.	2315.	644.6
Stddev	.27	20.	20.	22.3
%RSD	2.041	.7601	.8614	3.459
#1	13.22	2630.	2336.	619.9
#2	13.65	2597.	2312.	663.3
#3	13.14	2595.	2297.	650.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6837.4	42787.	9250.2
Stddev	16.9	254.	138.4
%RSD	.24788	.59471	1.4958
#1	6818.3	42498.	9173.4
#2	6850.5	42884.	9410.0
#3	6843.5	42978.	9167.4

Sample Name: 460-156657-a-26-b@5 Acquired: 5/31/2018 19:23:23 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91.74	3.826	-.0559	177.1	-.0051	221400.
Stddev	13.59	1.413	.1364	.7	.0398	596.
%RSD	14.82	36.93	243.9	.3724	781.2	.2691
#1	102.1	2.283	-.0510	177.1	.0389	221500.
#2	96.83	5.055	.0780	177.7	-.0157	221900.
#3	76.34	4.141	-.1947	176.4	-.0386	220700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5039	.0851	-1.499	1.208	2957.	993.9
Stddev	.0449	.1943	.297	.299	19.	17.4
%RSD	8.914	228.3	19.81	24.78	.6442	1.751
#1	.5517	-.0587	-1.809	1.425	2978.	991.1
#2	.4974	.0078	-1.469	1.334	2953.	978.1
#3	.4625	.3062	-1.218	.8667	2940.	1013.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	232.2	340.1	16730.	1.935	-1.751	-.6897
Stddev	2.8	.5	50.	.206	1.279	1.018
%RSD	1.216	.1508	.2970	10.65	73.03	147.6
#1	231.0	340.2	16790.	1.707	-1.899	-1.660
#2	235.4	340.5	16690.	2.108	-.4043	.3707
#3	230.1	339.5	16720.	1.992	-2.948	-.7801

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156657-a-26-b@5 Acquired: 5/31/2018 19:23:23 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.732	1.806	.9765	4.408	3.230	4.147
Stddev	1.779	.901	.3690	.153	.509	.187
%RSD	102.7	49.90	37.78	3.461	15.76	4.512
#1	3.474	2.451	.5546	4.548	3.669	4.075
#2	-.0822	2.191	1.239	4.432	3.349	4.007
#3	1.805	.7764	1.136	4.245	2.672	4.360

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.033	65.29	6.848	637.4
Stddev	.395	.02	.327	13.1
%RSD	38.25	.0250	4.779	2.053
#1	.6759	65.31	7.219	650.8
#2	1.458	65.28	6.728	624.7
#3	.9658	65.28	6.598	636.7

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6832.0	42283.	8964.2
Stddev	2.9	22.	4.2
%RSD	.04197	.05208	.04686
#1	6829.4	42295.	8966.1
#2	6831.5	42258.	8967.1
#3	6835.0	42297.	8959.4

Sample Name: 460-156204-b-2-v@4 Acquired: 5/31/2018 17:45:58 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52450.	66.04	-6750	184.2	2.260	8582.
Stddev	300.	1.30	.1532	.3	.009	69.
%RSD	.5709	1.964	22.70	.1824	.4091	.7984

#1	52800.	66.14	-.5606	184.2	2.253	8653.
#2	52260.	64.70	-.8491	183.9	2.256	8516.
#3	52300.	67.29	-.6153	184.6	2.271	8576.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8926	22.58	79.24	86.94	75010.	2878.
Stddev	.1292	.12	.55	.29	381.	30.
%RSD	14.47	.5323	.6943	.3310	.5083	1.055

#1	-1.041	22.65	79.63	87.08	75410.	2909.
#2	-.8317	22.65	78.61	86.61	74660.	2876.
#3	-.8052	22.44	79.47	87.13	74950.	2848.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9065.	1067.	182.3	49.87	163.3	-3.032
Stddev	58.	6.	9.2	.33	1.2	.906
%RSD	.6372	.5467	5.042	.6637	.7304	29.89

#1	9116.	1073.	192.4	49.58	163.5	-2.211
#2	9002.	1061.	174.5	50.23	162.0	-4.004
#3	9079.	1068.	179.9	49.79	164.3	-2.880

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156204-b-2-v@4 Acquired: 5/31/2018 17:45:58 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.359	-2.855	110.6	233.9	11.11	2.681
Stddev	2.192	1.913	.4	1.1	.50	.145
%RSD	161.3	66.99	.3777	.4703	4.499	5.407
#1	-3.885	-1.538	111.0	232.7	10.62	2.660
#2	.0450	-1.978	110.7	234.0	11.09	2.547
#3	-.2369	-5.049	110.2	234.9	11.62	2.835

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.436	28.42	1074.	657.2
Stddev	.462	.22	5.	19.5
%RSD	7.178	.7629	.4417	2.969
#1	6.155	28.66	1078.	636.3
#2	6.185	28.24	1068.	660.3
#3	6.969	28.36	1075.	675.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7234.9	45156.	9432.5
Stddev	28.9	201.	106.5
%RSD	.39963	.44591	1.1293
#1	7258.2	45008.	9344.0
#2	7244.0	45385.	9402.7
#3	7202.5	45076.	9550.7

Sample Name: CCB Acquired: 5/31/2018 19:46:30 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.624	.4596	.2320	.6924	.0775	13.59
Stddev	11.31	1.436	.1771	.3030	.0666	9.38
%RSD	170.8	312.5	76.36	43.76	85.89	69.02
#1	19.59	-.1325	.2124	1.042	.1533	23.80
#2	1.479	2.097	.4181	.5143	.0504	5.360
#3	-1.201	-.5860	.0654	.5206	.0287	11.60

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0010	.0061	.8020	.3377	7.987	-11.78
Stddev	.1127	.0517	.2635	.4541	11.77	8.66
%RSD	11470.	849.5	32.85	134.5	147.4	73.53
#1	.0282	.0597	.8589	.8119	21.46	-15.25
#2	-.1228	-.0435	1.032	.2946	-.3261	-18.16
#3	.0976	.0020	.5148	-.0933	2.826	-1.920

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.392	.2702	38.01	.1932	.2475	.9317
Stddev	6.847	.2580	20.12	.5074	.4282	1.608
%RSD	155.9	95.50	52.93	262.7	173.0	172.6
#1	12.18	.5618	56.33	.7790	.1783	2.650
#2	1.679	.1776	41.22	-.0917	.7061	-.5373
#3	-.6838	.0713	16.48	-.1078	-.1418	.6826

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 19:46:30 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.828	2.495	.0401	-.2492	2.009	1.170
Stddev	.349	2.862	.1170	.1185	.496	.354
%RSD	19.07	114.7	292.1	47.56	24.67	30.26
#1	-1.552	5.798	-.0790	-.1422	2.246	1.520
#2	-1.711	.7533	.1550	-.3766	2.341	1.177
#3	-2.220	.9346	.0443	-.2289	1.439	.8124

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0596	.2665	2.653	3.602
Stddev	.2478	.2351	1.705	25.63
%RSD	416.0	88.24	64.25	711.6
#1	.2258	.5000	4.531	-25.03
#2	-.2203	.2696	2.226	24.42
#3	-.1842	.0298	1.203	11.41

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7327.7	45226.	9250.5
Stddev	18.8	465.	88.3
%RSD	.25706	1.0277	.95476
#1	7338.6	44697.	9150.5
#2	7338.5	45567.	9317.8
#3	7305.9	45414.	9283.1

Sample Name: 460-156811-h-1-b@4 Acquired: 5/31/2018 18:17:28 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46510.	16.12	-8561	175.0	2.367	4469.
Stddev	404.	.43	.3496	.7	.071	40.
%RSD	.8675	2.691	40.83	.3857	3.001	.8965
#1	46890.	16.38	-.7869	175.7	2.427	4499.
#2	46560.	16.36	-.5463	174.6	2.384	4485.
#3	46080.	15.62	-1.235	174.5	2.288	4424.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9948	20.93	69.26	43.90	66600.	1985.
Stddev	.0957	.19	.35	.44	271.	23.
%RSD	9.622	.8929	.5110	1.009	.4064	1.150
#1	-.9540	21.10	69.23	44.14	66770.	2011.
#2	-.9263	20.73	69.62	43.39	66740.	1977.
#3	-1.104	20.96	68.91	44.18	66290.	1967.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6506.	842.3	314.7	52.56	81.61	-3.255
Stddev	22.	2.3	5.6	.24	.85	1.269
%RSD	.3363	.2728	1.787	.4661	1.038	38.99
#1	6505.	843.8	315.2	52.39	80.82	-1.880
#2	6528.	843.4	308.8	52.44	81.50	-3.504
#3	6484.	839.6	320.0	52.84	82.51	-4.382

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156811-h-1-b@4 Acquired: 5/31/2018 18:17:28 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.000	.2817	93.84	159.9	12.50	1.730
Stddev	1.106	1.407	.36	.8	.94	.327
%RSD	55.28	499.5	.3809	.5203	7.492	18.88
#1	-3.111	.0722	93.80	159.7	11.79	1.361
#2	-1.989	-1.009	94.21	159.1	12.15	1.845
#3	-.9001	1.782	93.50	160.8	13.56	1.983

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.013	29.23	646.1	425.3
Stddev	.650	.45	5.7	18.2
%RSD	16.19	1.539	.8760	4.276
#1	3.276	29.73	652.6	445.1
#2	4.505	29.11	643.1	409.2
#3	4.258	28.85	642.5	421.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7414.0	45750.	9211.4
Stddev	38.5	329.	113.2
%RSD	.51896	.71932	1.2288
#1	7376.1	45602.	9235.8
#2	7453.0	45522.	9088.0
#3	7412.9	46128.	9310.5

Sample Name: 460-157010-e-1-a@4 Acquired: 5/31/2018 18:44:48 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	88590.	133.1	-9913	492.4	3.099	2575.
Stddev	599.	1.8	.2314	7.6	.070	5.
%RSD	.6757	1.363	23.34	1.539	2.260	.1995
#1	87910.	133.7	-1.092	495.8	3.041	2572.
#2	88840.	134.6	-.7266	497.8	3.079	2581.
#3	89030.	131.1	-1.155	483.8	3.176	2572.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.826	64.67	87.97	47.44	77200.	1377.
Stddev	.391	1.01	.21	.29	292.	21.
%RSD	5.724	1.568	.2416	.6087	.3782	1.543
#1	6.998	64.91	87.83	47.17	76870.	1355.
#2	7.101	65.54	87.86	47.41	77330.	1398.
#3	6.379	63.55	88.22	47.75	77410.	1379.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3565.	672.8	1742.	107.6	387.8	-1.530
Stddev	33.	3.2	10.	2.2	7.7	.310
%RSD	.9152	.4712	.5799	2.067	1.978	20.28
#1	3528.	669.2	1732.	108.4	388.9	-1.781
#2	3580.	674.1	1752.	109.3	394.9	-1.626
#3	3588.	675.1	1742.	105.1	379.6	-1.183

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-e-1-a@4 Acquired: 5/31/2018 18:44:48 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.476	-1.336	81.36	1412.	8.894	1.575
Stddev	1.425	.785	.76	20.	.572	.217
%RSD	57.52	58.73	.9299	1.388	6.431	13.76
#1	-0.9734	-0.4777	80.66	1422.	8.981	1.627
#2	-3.807	-1.515	82.16	1424.	9.417	1.337
#3	-2.649	-2.017	81.24	1389.	8.283	1.760

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.137	16.18	792.9	619.6
Stddev	.324	.07	1.2	27.4
%RSD	10.33	.4150	.1490	4.419
#1	3.469	16.12	791.6	599.3
#2	3.119	16.16	793.3	650.8
#3	2.822	16.25	793.8	608.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7240.5	44189.	9098.1
Stddev	86.5	44.	61.5
%RSD	1.1953	.10004	.67611
#1	7201.8	44194.	9153.9
#2	7180.0	44231.	9108.4
#3	7339.6	44143.	9032.1

Sample Name: CCV Acquired: 5/31/2018 19:42:46 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121000.	2451.	1209.	10020.	976.5	122300.
Stddev	540.	10.	3.	33.	3.4	269.
%RSD	.4463	.4091	.2839	.3302	.3515	.2196

#1	120400.	2439.	1206.	9983.	972.8	122500.
#2	121300.	2454.	1212.	10040.	979.6	122200.
#3	121300.	2458.	1209.	10040.	977.2	122000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1246.	2484.	4980.	12240.	98550.	47960.
Stddev	4.	10.	4.	73.	65.	194.
%RSD	.3445	.3859	.0850	.5969	.0663	.4036

#1	1241.	2473.	4981.	12170.	98490.	47740.
#2	1249.	2490.	4983.	12310.	98620.	48120.
#3	1249.	2488.	4975.	12240.	98540.	48010.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121900.	5114.	122300.	2520.	7429.	968.1
Stddev	208.	10.	492.	7.	25.	4.4
%RSD	.1702	.1866	.4023	.2581	.3315	.4525

#1	122100.	5108.	121800.	2513.	7401.	966.5
#2	122000.	5125.	122500.	2522.	7438.	973.0
#3	121700.	5108.	122700.	2526.	7447.	964.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 19:42:46 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2425.	2481.	2460.	2529.	964.8	2422.
Stddev	14.	7.	8.	6.	3.3	11.
%RSD	.5646	.2797	.3437	.2304	.3411	.4481

#1	2409.	2476.	2453.	2522.	961.2	2410.
#2	2433.	2479.	2469.	2532.	965.8	2430.
#3	2433.	2489.	2458.	2533.	967.6	2426.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	988.9	4882.	9803.	9390.
Stddev	2.8	24.	8.	88.
%RSD	.2797	.4921	.0849	.9382

#1	985.8	4855.	9813.	9306.
#2	990.0	4891.	9799.	9382.
#3	991.0	4900.	9798.	9482.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6747.3	41470.	8883.2
Stddev	26.2	53.	44.6
%RSD	.38811	.12898	.50232

#1	6777.5	41411.	8906.1
#2	6733.6	41485.	8831.8
#3	6730.9	41514.	8911.7

Sample Name: 460-156870-a-9-a@4 Acquired: 5/31/2018 18:40:53 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24880.	8.237	.5319	3562.	2.052	165700.
Stddev	277.	2.024	.2904	17.	.063	231.
%RSD	1.112	24.57	54.61	.4699	3.082	.1391

#1	24570.	5.908	.2458	3545.	2.014	165700.
#2	24940.	9.562	.5232	3563.	2.017	165600.
#3	25110.	9.241	.8265	3579.	2.125	166000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1047.	98.68	1107.	530.7	27460.	4764.
Stddev	5.	.69	5.	4.8	77.	12.
%RSD	.4386	.6954	.4112	.9131	.2792	.2532

#1	1042.	98.00	1102.	525.1	27380.	4755.
#2	1047.	99.37	1107.	533.7	27480.	4759.
#3	1051.	98.68	1112.	533.4	27530.	4778.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12110.	911.0	144300.	46.07	F 38720.	16.20
Stddev	21.	5.0	1370.	.42	166.	1.41
%RSD	.1713	.5485	.9495	.9121	.4274	8.678

#1	12110.	905.6	142700.	45.61	38540.	17.51
#2	12090.	911.8	144800.	46.15	38750.	16.39
#3	12130.	915.5	145400.	46.44	38870.	14.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					15000.	
Low Limit					-10.00	

Sample Name: 460-156870-a-9-a@4 Acquired: 5/31/2018 18:40:53 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1039	-2.295	26.48	F 112800.	127.2	3.897
Stddev	1.445	2.039	.15	197.	2.4	.171
%RSD	1391.	88.84	.5837	.1747	1.912	4.390
#1	-.4509	.0576	26.30	112800.	124.4	3.699
#2	1.745	-3.394	26.57	112600.	128.2	3.999
#3	-.9818	-3.548	26.57	113000.	128.9	3.992
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.76	568.9	4472.	433.6
Stddev	1.09	7.9	31.	3.3
%RSD	2.027	1.393	.6832	.7712
#1	52.83	559.8	4437.	432.3
#2	53.49	572.4	4483.	431.1
#3	54.96	574.5	4495.	437.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6487.5	41814.	9056.7
Stddev	9.0	125.	77.0
%RSD	.13812	.30009	.85033
#1	6487.2	41669.	8967.9
#2	6478.7	41887.	9105.0
#3	6496.6	41886.	9097.3

Sample Name: 460-156204-b-2-t msd Acquired: 5/31/2018 17:34:43 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52230.	1024.	23.79	1235.	27.28	26120.
Stddev	222.	6.	.16	1.	.09	114.
%RSD	.4246	.5498	.6545	.0640	.3192	.4358

#1	52480.	1030.	23.94	1235.	27.38	25990.
#2	52050.	1020.	23.79	1234.	27.22	26150.
#3	52160.	1021.	23.63	1236.	27.25	26210.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.93	287.1	175.3	210.5	63900.	12330.
Stddev	.20	2.0	2.0	2.2	165.	93.
%RSD	.8097	.6816	1.124	1.043	.2587	.7579

#1	24.92	288.4	176.2	212.5	63980.	12400.
#2	24.73	284.8	173.0	208.1	63710.	12230.
#3	25.14	288.0	176.7	211.0	64000.	12380.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22710.	1194.	10130.	306.9	400.3	144.8
Stddev	8.	3.	30.	2.5	2.9	1.0
%RSD	.0372	.2328	.2962	.8019	.7239	.7100

#1	22710.	1196.	10150.	307.4	398.1	145.9
#2	22700.	1191.	10100.	304.3	399.3	144.3
#3	22710.	1196.	10150.	309.1	403.6	144.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156204-b-2-t msd Acquired: 5/31/2018 17:34:43 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	997.4	1119.	356.5	471.9	251.0	260.9
Stddev	8.6	3.	4.2	2.8	1.0	2.3
%RSD	.8626	.2832	1.164	.5885	.3865	.8891
#1	1006.	1117.	359.7	469.6	251.9	262.1
#2	989.4	1117.	351.8	471.1	250.0	258.3
#3	996.3	1122.	358.1	475.0	251.1	262.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	241.3	284.9	1438.	811.1
Stddev	1.6	1.7	8.	48.6
%RSD	.6578	.5922	.5531	5.993
#1	241.9	286.8	1446.	866.7
#2	239.5	283.7	1431.	777.0
#3	242.5	284.1	1436.	789.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7175.8	44398.	9422.6
Stddev	62.1	481.	11.1
%RSD	.86489	1.0842	.11741
#1	7105.5	43861.	9414.7
#2	7222.7	44790.	9418.0
#3	7199.3	44545.	9435.3

Sample Name: sd 460-156204-b-2-v Acquired: 5/31/2018 17:49:50 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9425.	10.57	-.0416	33.85	.4136	1634.
Stddev	46.	1.57	.1444	.23	.0446	16.
%RSD	.4851	14.88	347.0	.6663	10.78	.9972
#1	9385.	9.516	.0963	33.94	.3966	1616.
#2	9414.	9.818	-.0295	34.01	.3801	1647.
#3	9475.	12.38	-.1917	33.59	.4643	1640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2332	3.989	14.27	15.38	14160.	473.0
Stddev	.0376	.052	.32	.42	46.	27.1
%RSD	16.11	1.301	2.264	2.704	.3228	5.725
#1	-.1964	4.018	13.91	15.86	14140.	445.9
#2	-.2715	3.929	14.39	15.15	14210.	500.1
#3	-.2316	4.020	14.53	15.13	14120.	472.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1715.	200.7	51.69	10.03	29.50	-.7189
Stddev	10.	.7	5.86	.56	.77	1.697
%RSD	.5981	.3670	11.33	5.607	2.601	236.1
#1	1710.	200.9	57.05	9.390	30.01	-2.583
#2	1727.	201.3	45.44	10.26	29.86	-.3105
#3	1708.	199.9	52.57	10.44	28.61	.7371

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-156204-b-2-v Acquired: 5/31/2018 17:49:50 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.439	1.466	19.79	46.65	-.4774	.1524
Stddev	1.477	1.926	.26	.85	.1862	.0759
%RSD	102.6	131.4	1.312	1.818	39.00	49.84
#1	-3.145	3.673	20.07	47.59	-.4565	.0949
#2	-.5499	.6008	19.74	46.40	-.6731	.1237
#3	-.6234	.1232	19.56	45.95	-.3025	.2385

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.386	5.096	193.5	-14.61
Stddev	.145	.057	.5	3.18
%RSD	10.49	1.126	.2693	21.79
#1	1.516	5.094	193.0	-11.60
#2	1.229	5.040	194.0	-14.30
#3	1.414	5.155	193.5	-17.94

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7385.9	45465.	9371.5
Stddev	.7	127.	185.3
%RSD	.00889	.27962	1.9776
#1	7386.6	45515.	9585.5
#2	7385.3	45560.	9266.0
#3	7386.0	45321.	9263.1

Sample Name: 460-156204-b-2-s.ms Acquired: 5/31/2018 17:38:25 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50880.	1021.	22.72	1211.	26.94	17300.
Stddev	86.	11.	.25	7.	.16	65.
%RSD	.1697	1.083	1.119	.5744	.5902	.3758

#1	50910.	1024.	22.61	1212.	27.02	17230.
#2	50780.	1030.	22.53	1217.	26.75	17300.
#3	50940.	1009.	23.01	1203.	27.04	17360.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.39	298.4	165.9	198.2	83980.	11970.
Stddev	.28	2.8	.9	.9	285.	15.
%RSD	1.150	.9450	.5125	.4358	.3394	.1263

#1	24.17	297.5	165.8	198.8	83700.	11980.
#2	24.70	301.6	166.8	198.5	83990.	11950.
#3	24.30	296.2	165.1	197.2	84270.	11970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18170.	1307.	9988.	309.4	380.1	149.5
Stddev	98.	4.	48.	2.1	3.3	1.2
%RSD	.5410	.2947	.4757	.6928	.8755	.8002

#1	18110.	1303.	9986.	308.4	377.8	149.4
#2	18120.	1308.	9942.	311.8	383.9	150.7
#3	18280.	1310.	10040.	307.9	378.5	148.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156204-b-2-s.ms Acquired: 5/31/2018 17:38:25 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	985.0	1106.	351.7	445.7	246.2	258.2
Stddev	5.7	6.	1.7	7.9	.9	1.4
%RSD	.5809	.5598	.4810	1.775	.3795	.5322
#1	984.5	1102.	351.5	443.4	245.1	256.8
#2	991.0	1102.	353.4	454.5	246.6	258.3
#3	979.6	1113.	350.1	439.2	246.9	259.5

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	234.3	275.0	1429.	690.2
Stddev	1.0	.7	4.	11.0
%RSD	.4109	.2607	.2490	1.590
#1	233.6	275.1	1425.	693.9
#2	233.8	274.2	1430.	698.8
#3	235.4	275.6	1432.	677.8

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7172.2	44476.	9463.6
Stddev	51.3	92.	66.9
%RSD	.71587	.20731	.70658
#1	7141.4	44492.	9388.2
#2	7143.8	44559.	9515.7
#3	7231.5	44377.	9487.0

Sample Name: CCVL Acquired: 5/31/2018 19:50:30 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	161.4	13.68	8.592	191.8	1.763	4449.
Stddev	5.4	.74	.396	4.7	.121	120.
%RSD	3.351	5.405	4.613	2.438	6.839	2.704

#1	159.9	13.29	8.506	186.5	1.687	4349.
#2	156.9	13.21	8.246	193.5	1.701	4414.
#3	167.4	14.53	9.025	195.3	1.902	4582.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.854	47.95	9.643	21.49	161.9	4129.
Stddev	.163	1.27	.279	.88	2.2	95.
%RSD	4.236	2.658	2.895	4.087	1.343	2.294

#1	3.666	46.56	9.436	20.64	159.6	4045.
#2	3.939	48.22	9.533	21.44	162.1	4110.
#3	3.957	49.06	9.961	22.39	163.9	4231.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4420.	14.84	4229.	39.55	9.475	19.38
Stddev	176.	.70	67.	.87	.557	1.65
%RSD	3.975	4.721	1.581	2.204	5.874	8.525

#1	4266.	14.29	4176.	38.58	10.11	17.53
#2	4381.	14.59	4208.	39.82	9.233	20.71
#3	4611.	15.63	4304.	40.26	9.081	19.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 19:50:30 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.51	22.91	46.06	29.67	45.47	18.70
Stddev	.45	1.60	1.80	1.26	2.63	1.02
%RSD	2.928	6.975	3.901	4.244	5.790	5.477
#1	15.97	22.79	44.52	28.32	42.61	17.55
#2	15.48	21.38	45.62	29.88	46.00	19.03
#3	15.07	24.57	48.03	30.81	47.79	19.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	47.06	17.72	19.46	F -13.74
Stddev	1.95	.40	.78	16.03
%RSD	4.132	2.246	3.994	116.7
#1	44.95	17.38	18.87	-29.69
#2	47.43	17.61	19.16	-13.89
#3	48.79	18.16	20.34	2.366

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7150.4	44238.	9100.7
Stddev	135.3	882.	73.7
%RSD	1.8919	1.9936	.80987
#1	7298.9	45105.	9133.8
#2	7118.2	44267.	9152.1
#3	7034.1	43342.	9016.3

Sample Name: 460-156858-a-3-c@4 Acquired: 5/31/2018 19:35:03 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21470.	5.447	-6112	91.12	1.133	1107.
Stddev	318.	1.421	.1161	.72	.060	16.
%RSD	1.482	26.08	19.00	.7863	5.288	1.412

#1	21110.	4.279	-6712	90.98	1.137	1089.
#2	21610.	7.029	-4773	91.89	1.072	1119.
#3	21700.	5.033	-6850	90.48	1.191	1113.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.163	16.62	34.60	36.44	51180.	1708.
Stddev	.146	.16	.71	.56	851.	48.
%RSD	12.55	.9879	2.041	1.526	1.663	2.781

#1	-1.023	16.45	33.84	36.02	50230.	1661.
#2	-1.151	16.64	35.24	37.08	51850.	1707.
#3	-1.314	16.78	34.71	36.23	51480.	1756.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7739.	1474.	171.3	41.88	17.30	-3.075
Stddev	165.	25.	8.1	.06	.61	.870
%RSD	2.135	1.673	4.739	.1470	3.553	28.29

#1	7551.	1446.	162.0	41.85	16.85	-4.070
#2	7861.	1494.	175.3	41.84	17.05	-2.454
#3	7806.	1480.	176.7	41.95	18.00	-2.702

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156858-a-3-c@4 Acquired: 5/31/2018 19:35:03 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.686	-.1112	39.81	106.7	7.070	1.273
Stddev	1.629	.6597	1.13	3.4	.829	.226
%RSD	60.65	593.2	2.844	3.182	11.72	17.75
#1	-1.784	-.4334	38.50	104.0	6.337	1.220
#2	-4.567	-.5479	40.51	105.6	6.904	1.078
#3	-1.708	.6476	40.42	110.5	7.969	1.520

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.123	9.734	325.1	1044.
Stddev	.391	.125	4.9	10.
%RSD	9.476	1.279	1.497	.9150
#1	4.529	9.593	320.0	1054.
#2	3.750	9.778	329.7	1040.
#3	4.090	9.830	325.5	1036.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7340.8	45512.	9327.4
Stddev	40.3	289.	60.9
%RSD	.54955	.63470	.65281
#1	7310.0	45769.	9383.5
#2	7325.9	45199.	9336.2
#3	7386.4	45568.	9262.7

Sample Name: pds 460-156204-b-2-v Acquired: 5/31/2018 17:31:06 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55860.	1821.	42.04	2098.	47.22	26380.
Stddev	1574.	16.	.85	9.	.11	289.
%RSD	2.817	.8583	2.021	.4336	.2352	1.095

#1	54240.	1837.	41.06	2107.	47.11	26070.
#2	55950.	1818.	42.44	2098.	47.33	26420.
#3	57390.	1806.	42.61	2089.	47.22	26650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.36	499.7	266.3	317.3	77680.	20020.
Stddev	.88	3.7	4.2	5.3	2652.	34.
%RSD	1.935	.7404	1.583	1.671	3.414	.1688

#1	46.32	503.2	261.7	311.5	74920.	19980.
#2	45.16	500.1	267.5	318.8	77920.	20050.
#3	44.60	495.9	269.9	321.8	80210.	20030.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26420.	1573.	18030.	520.5	629.7	439.7
Stddev	282.	38.	51.	2.3	3.0	3.9
%RSD	1.066	2.387	.2833	.4481	.4687	.8913

#1	26120.	1534.	18080.	522.5	633.2	443.5
#2	26450.	1576.	18040.	521.1	628.2	440.0
#3	26680.	1608.	17980.	517.9	627.9	435.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-156204-b-2-v Acquired: 5/31/2018 17:31:06 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1782.	1964.	571.2	699.5	458.0	469.4
Stddev	4.	14.	7.2	3.2	.8	2.2
%RSD	.1984	.6960	1.259	.4634	.1641	.4625
#1	1785.	1963.	563.0	696.1	457.8	470.3
#2	1784.	1977.	574.4	702.6	458.8	471.1
#3	1778.	1950.	576.2	699.7	457.4	467.0

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	469.5	485.0	1584.	699.6
Stddev	2.2	.9	39.	29.6
%RSD	.4726	.1952	2.469	4.232
#1	469.3	485.8	1544.	674.8
#2	471.8	485.3	1587.	691.6
#3	467.3	484.0	1622.	732.4

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7128.1	44579.	9601.7
Stddev	14.9	159.	2.5
%RSD	.20898	.35559	.02570
#1	7113.9	44736.	9602.5
#2	7126.8	44581.	9603.6
#3	7143.6	44419.	9598.9

Sample Name: CCV Acquired: 5/31/2018 18:01:47 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121900.	2450.	1199.	10020.	978.4	120600.
Stddev	1251.	16.	10.	76.	11.0	785.
%RSD	1.026	.6718	.8453	.7557	1.126	.6512

#1	121400.	2434.	1195.	9957.	973.5	120300.
#2	121000.	2467.	1210.	10110.	970.6	121500.
#3	123300.	2447.	1191.	10010.	991.0	120000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1239.	2486.	4904.	12200.	97290.	48180.
Stddev	6.	15.	40.	138.	745.	489.
%RSD	.4509	.6095	.8132	1.132	.7656	1.016

#1	1235.	2474.	4898.	12120.	97200.	47950.
#2	1246.	2503.	4947.	12350.	98080.	47850.
#3	1237.	2481.	4868.	12110.	96600.	48740.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	120000.	5042.	123300.	2510.	7418.	972.4
Stddev	968.	42.	1374.	16.	37.	10.7
%RSD	.8067	.8265	1.114	.6260	.5044	1.099

#1	120200.	5035.	122800.	2499.	7388.	963.5
#2	120900.	5086.	122300.	2528.	7460.	984.3
#3	119000.	5004.	124900.	2502.	7407.	969.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 18:01:47 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2434.	2502.	2435.	2493.	971.0	2438.
Stddev	11.	17.	21.	12.	7.6	16.
%RSD	.4616	.6726	.8736	.4762	.7780	.6597

#1	2423.	2483.	2433.	2494.	963.0	2422.
#2	2446.	2517.	2458.	2505.	978.1	2454.
#3	2434.	2505.	2416.	2481.	971.8	2438.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	988.8	4937.	9745.	9492.
Stddev	4.6	44.	36.	63.
%RSD	.4669	.8963	.3713	.6604

#1	985.8	4917.	9724.	9429.
#2	994.1	4906.	9787.	9554.
#3	986.4	4988.	9725.	9492.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6806.2	42378.	9012.8
Stddev	23.6	391.	61.1
%RSD	.34619	.92240	.67768

#1	6796.8	42124.	8983.4
#2	6788.9	42181.	9083.0
#3	6833.1	42828.	8972.1

Sample Name: 460-156768-d-7-n@4 Acquired: 5/31/2018 17:57:46 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37260.	17.95	-7843	184.9	2.094	F 380300.
Stddev	145.	1.07	.3265	.7	.009	2258.
%RSD	.3882	5.937	41.62	.3549	.4556	.5938
#1	37130.	16.79	-.4268	184.3	2.104	377700.
#2	37230.	18.89	-1.067	185.6	2.091	381300.
#3	37410.	18.17	-.8596	184.9	2.086	381800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9342	23.72	47.54	445.6	68110.	6189.
Stddev	.1175	.29	.82	1.2	263.	39.
%RSD	12.58	1.232	1.720	.2730	.3866	.6331
#1	-.9361	23.52	46.85	445.0	67800.	6172.
#2	-.8157	24.06	48.44	447.0	68250.	6162.
#3	-1.051	23.58	47.32	444.8	68270.	6234.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15920.	1107.	1595.	23.67	23.80	-5.233
Stddev	89.	4.	4.	.22	.47	.864
%RSD	.5621	.4044	.2496	.9240	1.970	16.52
#1	15820.	1101.	1590.	23.61	23.96	-5.826
#2	15980.	1109.	1597.	23.91	23.27	-5.633
#3	15970.	1109.	1597.	23.49	24.16	-4.242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156768-d-7-n@4 Acquired: 5/31/2018 17:57:46 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.464	-1.1232	54.60	781.6	134.0	5.855
Stddev	1.026	.5817	.29	2.6	2.0	.325
%RSD	18.78	472.0	.5280	.3313	1.469	5.544
#1	-4.572	-.3918	54.27	778.8	133.2	5.682
#2	-5.236	-.5221	54.70	784.0	136.2	6.229
#3	-6.586	.5442	54.82	782.0	132.5	5.653

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.207	2014.	2049.	694.3
Stddev	.283	8.	5.	21.3
%RSD	8.833	.3859	.2496	3.071
#1	3.282	2007.	2043.	672.0
#2	2.893	2013.	2053.	714.4
#3	3.444	2022.	2050.	696.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6966.1	43535.	9328.0
Stddev	16.2	146.	50.0
%RSD	.23252	.33429	.53552
#1	6982.9	43701.	9280.2
#2	6950.5	43431.	9379.9
#3	6965.0	43473.	9324.1

Sample Name: CCVL Acquired: 5/31/2018 19:00:12 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	168.0	13.11	8.123	189.6	1.708	4434.
Stddev	5.4	1.55	.457	2.4	.032	37.
%RSD	3.200	11.83	5.630	1.255	1.851	.8443

#1	163.6	14.89	7.698	192.0	1.697	4428.
#2	174.0	12.31	8.607	189.7	1.744	4473.
#3	166.3	12.12	8.064	187.2	1.684	4399.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.816	47.19	9.436	21.44	161.9	4082.
Stddev	.103	.36	.415	.62	8.8	54.
%RSD	2.708	.7557	4.399	2.890	5.427	1.326

#1	3.797	47.56	9.046	20.88	155.6	4094.
#2	3.928	47.15	9.872	22.11	171.9	4130.
#3	3.724	46.84	9.391	21.33	158.2	4023.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4360.	14.67	4209.	39.49	9.831	17.68
Stddev	104.	.27	44.	.62	.443	.84
%RSD	2.378	1.813	1.049	1.575	4.503	4.733

#1	4240.	14.36	4193.	40.12	9.766	18.17
#2	4424.	14.81	4259.	39.48	9.424	16.72
#3	4416.	14.84	4175.	38.88	10.30	18.16

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 19:00:12 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.38	22.42	45.71	29.60	44.81	18.48
Stddev	.76	2.37	1.05	.28	.24	.20
%RSD	5.253	10.55	2.300	.9360	.5392	1.078
#1	13.52	23.63	44.51	29.91	45.09	18.66
#2	14.69	19.70	46.48	29.42	44.65	18.27
#3	14.93	23.94	46.13	29.45	44.70	18.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.86	17.48	19.38	F -13.50
Stddev	.64	.10	.44	4.23
%RSD	1.385	.5481	2.270	31.30
#1	46.31	17.47	18.87	-9.694
#2	45.14	17.58	19.68	-18.05
#3	46.15	17.39	19.58	-12.77

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7260.1	44412.	9190.9
Stddev	54.6	383.	86.3
%RSD	.75201	.86275	.93876
#1	7211.1	44546.	9210.9
#2	7250.4	43980.	9096.4
#3	7319.0	44710.	9265.4

Sample Name: 460-156204-b-2-u du Acquired: 5/31/2018 17:42:07 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52570.	67.68	-7.989	184.3	2.254	8560.
Stddev	522.	.75	.3116	.9	.044	96.
%RSD	.9936	1.101	39.01	.5081	1.972	1.119
#1	53160.	67.87	-.6305	184.1	2.302	8662.
#2	52180.	66.86	-1.159	183.5	2.213	8473.
#3	52350.	68.31	-.6078	185.4	2.247	8545.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7422	22.59	78.78	87.18	74690.	2880.
Stddev	.1533	.03	.86	.51	717.	12.
%RSD	20.65	.1319	1.095	.5896	.9604	.4179
#1	-.9182	22.55	79.26	87.78	75460.	2885.
#2	-.6378	22.60	77.79	86.85	74040.	2866.
#3	-.6707	22.61	79.30	86.93	74570.	2887.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9018.	1063.	192.9	49.40	163.8	-2.457
Stddev	97.	10.	5.8	.30	2.4	.536
%RSD	1.077	.8969	2.991	.6140	1.476	21.84
#1	9128.	1073.	198.9	49.75	161.1	-2.881
#2	8945.	1054.	192.3	49.22	165.8	-2.636
#3	8980.	1063.	187.4	49.23	164.5	-1.854

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156204-b-2-u du Acquired: 5/31/2018 17:42:07 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.553	-1.593	110.2	232.2	11.35	2.759
Stddev	2.228	2.970	1.3	2.2	.32	.185
%RSD	143.5	186.5	1.205	.9596	2.826	6.689
#1	-3.664	-.8787	111.7	230.9	10.98	2.682
#2	.7755	.9551	109.3	234.7	11.50	2.969
#3	-1.769	-4.856	109.7	230.9	11.57	2.625

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.487	28.42	1074.	644.6
Stddev	.157	.18	7.	4.3
%RSD	2.415	.6251	.6931	.6639
#1	6.323	28.60	1082.	645.7
#2	6.635	28.24	1068.	639.9
#3	6.502	28.43	1072.	648.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7295.1	45732.	9495.3
Stddev	32.7	538.	128.6
%RSD	.44805	1.1757	1.3548
#1	7261.6	45112.	9346.8
#2	7326.9	46057.	9567.6
#3	7297.0	46028.	9571.6

Sample Name: 460-157010-e-5-a@4 Acquired: 5/31/2018 19:11:50 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29940.	51.52	-1.298	197.3	3.845	2486.
Stddev	115.	1.03	.251	.2	.079	30.
%RSD	.3850	1.991	19.37	.1074	2.042	1.202
#1	29810.	50.34	-1.474	197.2	3.806	2452.
#2	30030.	52.03	-1.010	197.3	3.935	2506.
#3	29960.	52.20	-1.410	197.6	3.793	2501.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.899	43.09	98.95	148.3	119300.	2557.
Stddev	.105	.20	1.70	1.5	428.	9.
%RSD	3.625	.4636	1.714	.9819	.3591	.3431
#1	-2.852	43.07	97.13	146.6	118900.	2548.
#2	-2.826	42.90	99.25	149.1	119300.	2566.
#3	-3.019	43.30	100.5	149.2	119700.	2556.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3720.	708.1	259.3	144.4	82.96	-4.524
Stddev	46.	3.6	6.8	1.0	.83	.789
%RSD	1.239	.5099	2.626	.6928	1.001	17.45
#1	3668.	704.1	264.2	143.4	83.54	-3.704
#2	3736.	709.1	262.3	144.3	83.34	-4.589
#3	3756.	711.1	251.6	145.4	82.01	-5.279

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-e-5-a@4 Acquired: 5/31/2018 19:11:50 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.511	-8867	97.84	189.2	20.06	2.623
Stddev	2.963	1.901	.89	4.3	.55	.417
%RSD	65.69	214.4	.9055	2.295	2.750	15.88
#1	-1.640	.1055	96.89	184.2	19.42	2.520
#2	-7.559	-3.078	97.99	191.9	20.39	2.267
#3	-4.333	.3126	98.64	191.6	20.36	3.081

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.531	25.65	673.2	617.5
Stddev	.731	.07	2.2	14.9
%RSD	11.20	.2786	.3281	2.404
#1	5.714	25.65	671.1	600.4
#2	6.756	25.71	673.0	625.5
#3	7.124	25.57	675.5	626.6

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7116.2	43790.	8949.1
Stddev	16.4	34.	42.6
%RSD	.22987	.07785	.47642
#1	7107.6	43758.	8997.6
#2	7135.1	43786.	8917.3
#3	7105.9	43825.	8932.5

Sample Name: mb 460-523656/1-a@2 Acquired: 5/31/2018 17:23:25 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.022	.3467	-.1390	-.0382	-.0341	5.751
Stddev	18.17	.6017	.1335	.0456	.0695	4.119
%RSD	898.2	173.6	96.09	119.5	203.6	71.63
#1	-17.98	.7902	-.1423	.0108	-.0369	10.38
#2	17.75	.5881	-.0038	-.0460	-.1022	4.387
#3	-5.840	-.3383	-.2708	-.0793	.0367	2.486

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0968	-.0631	.0054	.0273	-2.019	-11.57
Stddev	.0509	.0457	.1548	.2184	5.553	9.70
%RSD	52.60	72.45	2844.	800.5	275.0	83.81
#1	.1527	-.1049	.1734	.2705	-5.934	-9.299
#2	.0532	-.0143	-.0256	-.1521	4.335	-3.213
#3	.0845	-.0702	-.1315	-.0365	-4.459	-22.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.246	-.0090	49.27	.0866	-.9265	-.9891
Stddev	5.898	.0158	7.20	.4605	.7142	1.601
%RSD	138.9	175.6	14.60	531.5	77.09	161.8
#1	-8.058	.0076	50.56	.6122	-1.581	.8015
#2	-7.227	-.0240	41.52	-.2458	-1.033	-2.282
#3	2.548	-.0107	55.74	-.1066	-1.1650	-1.487

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-523656/1-a@2 Acquired: 5/31/2018 17:23:25 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	- .8036	1.811	.1154	-1.077	.8183	-.1518
Stddev	.9858	.515	.4592	.036	.1705	.0324
%RSD	122.7	28.42	397.8	3.328	20.83	21.37
#1	-1.916	2.170	-.2158	-1.036	1.011	-.1874
#2	-.4572	1.221	-.0775	-1.102	.6869	-.1439
#3	-.0376	2.042	.6396	-1.093	.7572	-.1239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2154	.0743	.0828	.3659
Stddev	.4419	.0950	.0635	12.71
%RSD	205.2	127.8	76.66	3475.
#1	-.7233	.0751	.1451	-12.44
#2	-.0038	.1689	.0851	.5648
#3	.0809	-.0211	.0182	12.98

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7216.2	44760.	9292.3
Stddev	16.7	251.	42.3
%RSD	.23148	.56009	.45556
#1	7227.7	44874.	9323.1
#2	7223.9	44934.	9309.7
#3	7197.0	44473.	9244.0

Sample Name: 460-156858-a-1-c@4 Acquired: 5/31/2018 19:31:12 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25670.	6.390	-7.220	116.7	1.350	2121.
Stddev	288.	.991	.1837	.6	.009	17.
%RSD	1.121	15.51	25.44	.5205	.6409	.7939

#1	25360.	7.447	-.6156	116.4	1.342	2101.
#2	25730.	5.482	-.9341	117.4	1.349	2129.
#3	25920.	6.242	-.6163	116.3	1.360	2132.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.961	19.73	193.2	51.17	71880.	2903.
Stddev	.145	.08	1.8	.53	859.	36.
%RSD	7.381	.3879	.9242	1.045	1.195	1.243

#1	-1.793	19.65	191.2	50.66	70910.	2862.
#2	-2.045	19.75	194.7	51.11	72190.	2922.
#3	-2.043	19.80	193.6	51.72	72540.	2926.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8584.	1414.	505.5	90.69	22.11	-3.249
Stddev	107.	16.	2.7	.63	1.90	.669
%RSD	1.246	1.166	.5314	.6966	8.575	20.60

#1	8463.	1395.	503.6	90.09	20.89	-2.798
#2	8626.	1421.	504.3	91.35	24.29	-4.018
#3	8665.	1426.	508.5	90.63	21.15	-2.931

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156858-a-1-c@4 Acquired: 5/31/2018 19:31:12 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.432	-6.941	53.37	119.7	12.84	24.65
Stddev	1.265	1.613	.36	3.7	.54	.66
%RSD	36.85	232.4	.6734	3.062	4.232	2.695
#1	-2.040	-1.070	53.13	116.9	12.36	24.06
#2	-3.746	-2.086	53.21	123.9	13.43	25.37
#3	-4.510	1.074	53.79	118.5	12.74	24.53

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.994	13.00	493.8	1298.
Stddev	.694	.07	5.6	12.
%RSD	13.91	.5634	1.138	.8951
#1	4.193	12.95	487.4	1308.
#2	5.364	13.08	496.4	1301.
#3	5.425	12.95	497.7	1286.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7281.5	44308.	9027.1
Stddev	56.0	267.	184.3
%RSD	.76940	.60356	2.0418
#1	7276.4	44594.	9239.4
#2	7228.2	44065.	8907.9
#3	7339.9	44265.	8934.0

Sample Name: 460-156870-b-6-a@4 Acquired: 5/31/2018 18:29:15 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2183.	4.412	.0074	174.6	.0316	13230.
Stddev	21.	.861	.3450	.5	.0527	55.
%RSD	.9643	19.52	4685.	.3134	166.6	.4127
#1	2164.	4.662	-.0615	175.0	.0629	13160.
#2	2180.	5.121	.3817	174.0	-.0292	13250.
#3	2205.	3.454	-.2980	174.9	.0611	13260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.129	.2959	7.508	11.84	14360.	1441.
Stddev	.062	.1163	.508	.44	40.	22.
%RSD	5.507	39.31	6.771	3.709	.2754	1.549
#1	1.112	.3619	7.271	12.24	14330.	1445.
#2	1.077	.3642	7.161	11.91	14400.	1416.
#3	1.198	.1616	8.091	11.37	14360.	1460.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4841.	603.3	645.0	4.559	8.439	-1.347
Stddev	22.	2.5	12.4	.270	.529	1.120
%RSD	.4637	.4207	1.919	5.926	6.266	83.19
#1	4815.	600.7	633.8	4.339	7.908	-2.357
#2	4857.	603.5	658.3	4.861	8.965	-.1421
#3	4850.	605.8	643.0	4.479	8.442	-1.541

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156870-b-6-a@4 Acquired: 5/31/2018 18:29:15 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.199	.3756	2.853	1734.	24.77	.2712
Stddev	2.944	1.685	.412	4.	1.50	.0535
%RSD	245.6	448.6	14.44	.2475	6.074	19.72
#1	-1.968	1.933	2.502	1729.	23.05	.3104
#2	-3.681	.6058	3.306	1737.	25.42	.2103
#3	2.054	-1.412	2.749	1737.	25.85	.2928

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	33.04	60.32	106.1	276.8
Stddev	1.69	.23	.8	23.0
%RSD	5.124	.3838	.7758	8.321
#1	31.14	60.59	105.2	293.2
#2	33.57	60.21	106.8	286.6
#3	34.40	60.17	106.3	250.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7012.2	44132.	9087.8
Stddev	20.9	84.	70.9
%RSD	.29780	.19130	.78059
#1	6992.0	44097.	9163.4
#2	7033.7	44071.	9077.5
#3	7011.0	44229.	9022.6

Sample Name: 460-156768-d-13-l@4 Acquired: 5/31/2018 18:13:28 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43260.	20.04	-5596	188.8	2.113	F 420300.
Stddev	170.	.57	.2580	.4	.034	3608.
%RSD	.3921	2.863	46.11	.2194	1.615	.8584
#1	43420.	19.45	-.2869	188.5	2.146	422800.
#2	43270.	20.06	-.7999	188.6	2.116	416200.
#3	43080.	20.60	-.5921	189.2	2.077	422000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7305	29.29	55.19	388.9	61280.	7797.
Stddev	.1777	.25	.59	1.2	64.	35.
%RSD	24.32	.8647	1.071	.3036	.1043	.4444
#1	-.6429	29.50	55.84	389.3	61350.	7835.
#2	-.9349	29.01	55.04	387.6	61270.	7789.
#3	-.6136	29.36	54.68	389.9	61220.	7768.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19720.	1074.	3918.	40.52	15.31	-5.207
Stddev	31.	1.	24.	.41	.64	.858
%RSD	.1561	.1272	.6100	1.009	4.151	16.48
#1	19750.	1076.	3943.	40.46	15.96	-5.308
#2	19700.	1074.	3916.	40.15	15.28	-6.010
#3	19700.	1073.	3895.	40.96	14.69	-4.303
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156768-d-13-l@4 Acquired: 5/31/2018 18:13:28 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.238	-2.667	129.4	733.1	106.6	3.597
Stddev	.539	1.212	.5	1.8	2.0	.090
%RSD	10.29	45.44	.3950	.2514	1.903	2.503
#1	-4.804	-1.655	129.7	734.2	105.3	3.696
#2	-5.841	-4.010	129.7	734.1	105.7	3.578
#3	-5.068	-2.336	128.8	731.0	109.0	3.519

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.182	2419.	2056.	685.7
Stddev	.234	10.	1.	5.6
%RSD	5.587	.3946	.0468	.8166
#1	3.957	2428.	2056.	681.7
#2	4.423	2418.	2055.	692.1
#3	4.166	2409.	2057.	683.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6819.1	42455.	9186.8
Stddev	24.3	302.	90.5
%RSD	.35577	.71063	.98501
#1	6791.6	42111.	9088.0
#2	6828.2	42582.	9206.8
#3	6837.5	42673.	9265.6

Sample Name: CCVL Acquired: 5/31/2018 18:09:31 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	174.7	12.84	8.405	194.0	1.784	4478.
Stddev	1.0	1.81	.571	5.7	.053	179.
%RSD	.5575	14.08	6.794	2.963	2.985	4.001

#1	174.9	14.26	7.884	187.7	1.786	4373.
#2	173.6	13.47	8.316	195.6	1.730	4377.
#3	175.5	10.80	9.016	198.8	1.837	4685.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.827	48.45	9.668	22.40	162.8	4130.
Stddev	.115	1.63	.558	.90	4.5	127.
%RSD	3.012	3.369	5.775	4.033	2.793	3.083

#1	3.694	46.66	9.223	21.81	158.0	4074.
#2	3.906	48.84	9.488	21.95	163.2	4040.
#3	3.880	49.85	10.29	23.44	167.1	4276.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4446.	14.80	4287.	39.95	8.882	17.87
Stddev	227.	.76	127.	1.38	.755	1.07
%RSD	5.104	5.108	2.966	3.455	8.497	5.969

#1	4294.	14.27	4222.	38.36	8.068	17.26
#2	4336.	14.46	4204.	40.69	9.558	19.10
#3	4707.	15.67	4433.	40.81	9.020	17.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 18:09:31 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.00	23.38	46.50	29.62	45.85	18.85
Stddev	2.76	1.15	2.09	1.17	2.78	.74
%RSD	17.23	4.928	4.504	3.941	6.055	3.906
#1	13.53	22.99	45.10	28.31	42.70	18.01
#2	18.97	22.48	45.50	29.96	46.88	19.36
#3	15.50	24.68	48.91	30.57	47.96	19.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	47.30	17.79	19.71	F -8.064
Stddev	1.63	.52	.93	17.81
%RSD	3.444	2.917	4.709	220.8
#1	45.44	17.54	19.08	-27.80
#2	47.97	17.44	19.28	-3.215
#3	48.49	18.39	20.78	6.818

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7102.6	43947.	9112.8
Stddev	126.7	1153.	248.0
%RSD	1.7840	2.6242	2.7218
#1	7246.1	44694.	9224.9
#2	7055.3	44529.	9285.1
#3	7006.3	42619.	8828.5

Sample Name: 460-156870-b-5-a@4 Acquired: 5/31/2018 18:25:21 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2639.	1.518	.4910	135.0	.1588	15240.
Stddev	22.	1.061	.2801	1.2	.0092	65.
%RSD	.8523	69.93	57.04	.9176	5.795	.4288

#1	2613.	2.015	.7817	135.4	.1673	15170.
#2	2653.	.2991	.2229	135.9	.1490	15300.
#3	2651.	2.239	.4684	133.5	.1599	15250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.494	.5898	6.333	18.73	9797.	1831.
Stddev	.241	.0937	.077	.14	89.	16.
%RSD	5.359	15.89	1.213	.7644	.9110	.8677

#1	4.602	.4980	6.247	18.80	9695.	1815.
#2	4.663	.6853	6.358	18.83	9836.	1831.
#3	4.219	.5860	6.394	18.57	9861.	1847.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14350.	306.3	1302.	5.923	10.77	.3798
Stddev	56.	.9	12.	.412	.54	.9627
%RSD	.3904	.2822	.9417	6.949	5.012	253.5

#1	14280.	305.6	1288.	5.780	11.32	.3269
#2	14360.	307.3	1309.	6.387	10.75	1.368
#3	14390.	306.0	1310.	5.602	10.24	-.5554

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156870-b-5-a@4 Acquired: 5/31/2018 18:25:21 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.252	-1.780	4.070	1034.	42.19	.1898
Stddev	1.526	.490	.172	8.	.17	.0943
%RSD	121.9	27.54	4.233	.7990	.4105	49.66
#1	2.085	-1.245	4.071	1033.	42.11	.1512
#2	-.5091	-1.889	4.242	1043.	42.39	.2973
#3	2.179	-2.207	3.897	1027.	42.08	.1210

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.206	73.02	189.4	271.2
Stddev	.699	.26	.9	7.0
%RSD	16.61	.3573	.4590	2.574
#1	4.671	72.72	189.6	279.3
#2	3.403	73.20	190.2	266.9
#3	4.546	73.14	188.5	267.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6953.9	43717.	9013.4
Stddev	33.9	127.	63.7
%RSD	.48799	.29056	.70700
#1	6915.6	43582.	9069.8
#2	6966.0	43735.	9026.2
#3	6980.2	43834.	8944.3

Sample Name: 460-156870-b-7-a@4 Acquired: 5/31/2018 18:33:08 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5320.	3.384	.0210	177.6	.1225	14600.
Stddev	14.	1.361	.5592	.9	.0270	27.
%RSD	.2599	40.22	2664.	.4820	22.08	.1882
#1	5335.	2.013	.2751	178.4	.1485	14570.
#2	5309.	4.735	.4081	177.5	.1245	14600.
#3	5315.	3.404	-.6202	176.7	.0945	14630.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6265	1.562	15.64	18.10	30520.	2152.
Stddev	.0132	.157	.46	.06	47.	10.
%RSD	2.111	10.05	2.964	.3506	.1554	.4549
#1	.6358	1.635	15.61	18.04	30470.	2155.
#2	.6324	1.669	16.12	18.09	30540.	2141.
#3	.6114	1.382	15.19	18.16	30560.	2160.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18320.	1308.	1189.	18.10	12.52	-.5632
Stddev	43.	1.	3.	.30	.67	1.169
%RSD	.2373	.0468	.2923	1.668	5.324	207.7
#1	18320.	1308.	1191.	18.35	12.50	-1.847
#2	18280.	1309.	1191.	17.77	13.20	-.2824
#3	18370.	1307.	1185.	18.19	11.86	.4403

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156870-b-7-a@4 Acquired: 5/31/2018 18:33:08 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.202	-1.656	6.458	460.6	53.00	4.085
Stddev	1.785	1.162	.207	9.0	1.30	.406
%RSD	81.06	70.17	3.199	1.962	2.456	9.946
#1	-3.246	-3.380	6.523	471.0	52.14	4.537
#2	-.1409	-2.533	6.226	455.4	54.50	3.967
#3	-3.220	-2.096	6.624	455.4	52.37	3.750

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	25.52	70.17	211.7	193.0
Stddev	.25	.07	.2	1.5
%RSD	.9724	.0954	.0849	.7576
#1	25.24	70.24	211.7	191.4
#2	25.71	70.16	211.5	193.3
#3	25.62	70.10	211.8	194.3

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6875.9	43195.	9019.2
Stddev	9.6	138.	43.9
%RSD	.14007	.32008	.48718
#1	6864.8	43295.	8970.9
#2	6880.1	43252.	9056.7
#3	6882.7	43037.	9030.1

Sample Name: 460-156870-b-2-a@4 Acquired: 5/31/2018 18:21:20 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28340.	10.86	-4671	66.21	.5475	F 521900.
Stddev	495.	.93	.4591	.87	.0635	7768.
%RSD	1.746	8.527	98.29	1.315	11.60	1.488
#1	27780.	11.04	-.9740	65.20	.4752	513800.
#2	28530.	11.68	-.0793	66.76	.5943	522800.
#3	28700.	9.855	-.3479	66.66	.5731	529200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6262	10.73	27.77	32.51	9255.	3559.
Stddev	.1618	.10	.65	.51	82.	85.
%RSD	25.84	.9361	2.329	1.571	.8812	2.393
#1	.7456	10.61	27.03	31.92	9178.	3461.
#2	.6911	10.81	28.01	32.84	9248.	3603.
#3	.4420	10.76	28.26	32.77	9341.	3613.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	133800.	392.7	6835.	108.0	5.330	-.1310
Stddev	2353.	5.6	120.	1.2	.959	.9594
%RSD	1.759	1.435	1.748	1.134	17.98	732.2
#1	131100.	386.4	6699.	106.7	6.327	.7886
#2	134600.	394.6	6880.	108.5	5.247	-.0559
#3	135600.	397.1	6925.	109.0	4.416	-1.126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156870-b-2-a@4 Acquired: 5/31/2018 18:21:20 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.633	-1.789	33.31	330.8	748.6	3.897
Stddev	2.132	1.975	.36	3.7	12.8	.528
%RSD	130.6	110.4	1.077	1.109	1.715	13.54
#1	2.833	-3.106	33.17	326.6	733.9	3.331
#2	-.8291	.4822	33.05	333.6	754.3	3.985
#3	2.894	-2.744	33.72	332.0	757.6	4.375

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	25.12	632.0	536.9	670.8
Stddev	.66	11.6	8.4	27.0
%RSD	2.630	1.837	1.558	4.029
#1	24.63	618.8	527.9	645.0
#2	25.87	636.1	538.3	668.4
#3	24.85	640.9	544.5	698.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6417.0	41433.	9133.1
Stddev	6.2	164.	53.9
%RSD	.09615	.39544	.59050
#1	6415.5	41609.	9079.7
#2	6411.8	41404.	9132.1
#3	6423.8	41286.	9187.6

Sample Name: 460-156870-c-8-a@4 Acquired: 5/31/2018 18:37:01 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4480.	2.099	.6747	138.9	.2064	8319.
Stddev	17.	.522	.2534	.3	.0496	11.
%RSD	.3768	24.86	37.56	.1823	24.05	.1327
#1	4487.	1.891	.8037	139.2	.1626	8306.
#2	4461.	2.693	.3828	138.7	.1962	8328.
#3	4493.	1.713	.8377	138.9	.2603	8321.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.281	1.831	8.890	36.78	13590.	1057.
Stddev	.122	.091	.289	.25	85.	28.
%RSD	1.944	4.994	3.249	.6861	.6252	2.677
#1	6.355	1.831	9.003	36.56	13490.	1089.
#2	6.349	1.739	9.104	37.05	13640.	1046.
#3	6.140	1.922	8.561	36.71	13630.	1036.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13610.	238.8	2338.	10.88	23.15	-.4694
Stddev	22.	.4	7.	.16	1.34	.8715
%RSD	.1613	.1627	.3167	1.424	5.803	185.7
#1	13590.	239.0	2344.	11.03	21.61	.2617
#2	13590.	238.4	2340.	10.72	24.09	-.2362
#3	13630.	239.2	2330.	10.89	23.73	-1.434

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156870-c-8-a@4 Acquired: 5/31/2018 18:37:01 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.382	-2.508	7.943	339.3	16.95	.4833
Stddev	2.361	.178	.243	4.2	.60	.2250
%RSD	170.8	7.109	3.063	1.252	3.546	46.55
#1	-1.050	-2.548	7.672	335.2	16.44	.2541
#2	3.664	-2.663	8.142	343.7	17.61	.4918
#3	1.532	-2.314	8.016	338.9	16.81	.7039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.310	39.63	254.1	323.8
Stddev	.991	.19	.6	9.6
%RSD	15.70	.4843	.2489	2.979
#1	6.049	39.84	254.6	332.8
#2	7.405	39.46	254.2	325.0
#3	5.475	39.59	253.4	313.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6917.8	43634.	9020.8
Stddev	53.3	390.	45.7
%RSD	.77110	.89437	.50708
#1	6870.3	43275.	8980.9
#2	6907.6	43578.	9070.7
#3	6975.6	44049.	9010.7

Sample Name: 460-157010-e-2-a@4 Acquired: 5/31/2018 18:48:39 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37550.	147.0	-1.589	329.8	6.131	10140.
Stddev	143.	1.6	.289	.4	.049	68.
%RSD	.3810	1.121	18.19	.1276	.8015	.6734

#1	37630.	148.8	-1.919	330.0	6.184	10090.
#2	37380.	146.7	-1.470	329.3	6.087	10110.
#3	37630.	145.6	-1.378	330.1	6.121	10220.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.385	121.3	101.6	113.4	156800.	3704.
Stddev	.164	.3	.3	.8	588.	31.
%RSD	11.81	.2266	.3114	.6948	.3752	.8457

#1	-1.213	121.6	101.2	114.2	156500.	3714.
#2	-1.405	121.1	101.6	113.4	156600.	3669.
#3	-1.538	121.1	101.9	112.7	157500.	3730.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8860.	1775.	987.4	928.6	318.4	-4.781
Stddev	41.	3.	7.2	.7	.5	1.090
%RSD	.4624	.1456	.7320	.0711	.1446	22.81

#1	8820.	1774.	991.5	928.2	317.9	-3.982
#2	8858.	1773.	991.7	928.3	318.5	-6.023
#3	8902.	1778.	979.1	929.4	318.8	-4.338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-e-2-a@4 Acquired: 5/31/2018 18:48:39 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.024	-3.929	146.1	751.0	25.04	7.075
Stddev	1.156	1.306	.1	4.3	.70	.195
%RSD	19.19	33.24	.0994	.5756	2.805	2.749
#1	-6.042	-3.320	146.2	746.0	25.32	7.168
#2	-4.859	-3.039	146.2	753.7	25.57	6.852
#3	-7.172	-5.428	146.0	753.2	24.25	7.207

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.809	94.53	653.0	818.0
Stddev	.280	.28	1.1	15.9
%RSD	3.585	.2956	.1727	1.947
#1	7.553	94.79	653.7	825.0
#2	8.108	94.58	653.6	829.3
#3	7.765	94.23	651.7	799.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7320.2	45589.	9611.8
Stddev	56.2	191.	70.5
%RSD	.76710	.42002	.73335
#1	7273.4	45370.	9562.8
#2	7304.6	45672.	9692.6
#3	7382.5	45724.	9580.1

Sample Name: CCV Acquired: 5/31/2018 18:52:28 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126500.	2541.	1252.	10420.	1016.	127200.
Stddev	86.	1.	2.	4.	1.	461.
%RSD	.0677	.0573	.1290	.0414	.0654	.3627

#1	126400.	2541.	1250.	10420.	1016.	126800.
#2	126600.	2541.	1252.	10410.	1017.	127700.
#3	126400.	2543.	1253.	10420.	1016.	127000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1295.	2580.	5181.	12740.	102500.	49920.
Stddev	1.	2.	14.	12.	269.	47.
%RSD	.0699	.0758	.2752	.0926	.2625	.0946

#1	1294.	2579.	5167.	12750.	102300.	49870.
#2	1295.	2580.	5196.	12730.	102800.	49930.
#3	1296.	2583.	5179.	12730.	102400.	49970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126400.	5305.	127700.	2615.	7713.	1010.
Stddev	381.	13.	169.	4.	3.	5.
%RSD	.3015	.2494	.1325	.1365	.0434	.5280

#1	125900.	5291.	127600.	2614.	7714.	1006.
#2	126700.	5317.	127900.	2611.	7709.	1016.
#3	126400.	5306.	127600.	2618.	7716.	1008.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 18:52:28 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2514.	2589.	2551.	2624.	1005.	2531.
Stddev	5.	8.	6.	3.	3.	2.
%RSD	.2180	.2993	.2186	.1293	.3252	.0671

#1	2512.	2597.	2547.	2625.	1002.	2533.
#2	2520.	2587.	2558.	2620.	1007.	2529.
#3	2509.	2582.	2550.	2627.	1008.	2530.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1027.	5101.	10220.	9769.
Stddev	2.	5.	49.	44.
%RSD	.1895	.0958	.4840	.4460

#1	1029.	5096.	10170.	9726.
#2	1026.	5105.	10270.	9813.
#3	1026.	5103.	10230.	9767.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6614.9	40741.	8675.4
Stddev	28.9	162.	37.1
%RSD	.43763	.39769	.42749

#1	6642.3	40923.	8680.0
#2	6617.9	40684.	8709.9
#3	6584.6	40615.	8636.2

Sample Name: 460-157010-e-4-a@4 Acquired: 5/31/2018 19:07:56 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53340.	17.71	-1.556	155.3	2.514	323.3
Stddev	149.	1.04	.252	.3	.030	2.4
%RSD	.2792	5.873	16.21	.1833	1.187	.7338

#1	53290.	16.58	-1.530	155.0	2.539	322.6
#2	53510.	17.92	-1.318	155.5	2.481	325.9
#3	53220.	18.62	-1.820	155.4	2.522	321.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.746	15.25	123.8	59.90	115200.	3868.
Stddev	.135	.10	.8	.52	294.	29.
%RSD	4.911	.6558	.6778	.8756	.2551	.7428

#1	-2.756	15.14	123.3	59.30	115100.	3869.
#2	-2.607	15.34	123.3	60.27	114900.	3896.
#3	-2.876	15.26	124.7	60.13	115500.	3839.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6385.	385.3	105.2	60.57	59.73	-3.760
Stddev	14.	1.0	7.8	.71	1.74	1.096
%RSD	.2240	.2494	7.409	1.175	2.914	29.14

#1	6377.	385.3	112.8	59.82	58.05	-4.502
#2	6376.	384.3	105.7	61.24	61.53	-2.501
#3	6401.	386.2	97.21	60.64	59.60	-4.276

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-e-4-a@4 Acquired: 5/31/2018 19:07:56 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.759	-1.907	199.3	166.7	19.18	3.766
Stddev	.459	1.425	.8	1.7	1.18	.326
%RSD	12.22	74.73	.3827	1.037	6.161	8.662
#1	-4.239	-2.127	200.1	164.7	18.49	3.657
#2	-3.324	-3.209	198.7	167.6	20.54	4.133
#3	-3.715	-.3849	199.0	167.7	18.50	3.508

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.114	6.934	936.8	727.6
Stddev	.074	.076	1.6	22.5
%RSD	1.808	1.091	.1659	3.096
#1	4.193	6.910	937.1	701.8
#2	4.104	7.018	935.1	737.8
#3	4.046	6.872	938.2	743.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7126.5	44277.	9271.1
Stddev	23.6	212.	68.0
%RSD	.33160	.47977	.73368
#1	7107.0	44037.	9201.8
#2	7119.5	44350.	9273.8
#3	7152.8	44443.	9337.8

Sample Name: 460-157010-e-3-a@4 Acquired: 5/31/2018 19:04:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42150.	179.4	-1.884	597.6	6.535	8038.
Stddev	340.	1.4	.378	3.2	.112	16.
%RSD	.8073	.7542	20.06	.5286	1.706	.2008

#1	42510.	178.3	-1.976	594.0	6.586	8055.
#2	41830.	180.9	-2.207	599.5	6.407	8024.
#3	42100.	178.9	-1.468	599.4	6.612	8034.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.801	68.01	145.8	232.1	F 223600.	4389.
Stddev	.074	.36	.4	1.6	452.	25.
%RSD	1.936	.5341	.2899	.7015	.2020	.5748

#1	-3.726	68.42	145.4	233.5	223800.	4417.
#2	-3.873	67.86	145.7	230.3	223100.	4368.
#3	-3.804	67.74	146.3	232.4	224000.	4381.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10010.	3076.	659.1	403.2	259.6	-6.912
Stddev	28.	8.	3.9	1.0	.9	1.117
%RSD	.2825	.2594	.5927	.2505	.3545	16.16

#1	10040.	3082.	663.6	404.4	258.8	-5.771
#2	9986.	3067.	656.6	402.7	259.5	-8.003
#3	10010.	3079.	657.0	402.6	260.6	-6.961

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-e-3-a@4 Acquired: 5/31/2018 19:04:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.103	-4.682	168.2	581.5	63.34	10.60
Stddev	.310	1.181	.7	2.3	1.47	.15
%RSD	4.367	25.23	.4190	.3894	2.314	1.399
#1	-7.412	-3.458	168.3	579.9	62.17	10.44
#2	-7.103	-4.771	167.4	584.1	62.87	10.73
#3	-6.792	-5.815	168.8	580.5	64.98	10.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.10	81.22	982.7	1011.
Stddev	.71	.49	3.3	20.
%RSD	6.362	.6076	.3350	1.934
#1	11.10	81.73	984.3	991.4
#2	10.40	80.74	978.9	1010.
#3	11.81	81.19	984.9	1031.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7247.9	44876.	9340.4
Stddev	4.4	214.	150.3
%RSD	.06009	.47721	1.6087
#1	7242.9	44629.	9167.8
#2	7250.7	45012.	9411.6
#3	7250.2	44986.	9441.9

Sample Name: 460-156204-c-1-e@4 Acquired: 5/31/2018 19:19:33 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55560.	19.53	-.5715	861.4	3.357	98260.
Stddev	528.	.38	.3420	5.5	.013	809.
%RSD	.9497	1.935	59.85	.6327	.3751	.8228

#1	56170.	19.68	-.7667	867.4	3.368	99180.
#2	55310.	19.81	-.1765	856.7	3.343	97660.
#3	55200.	19.10	-.7712	860.1	3.361	97940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3915	37.88	130.3	724.3	111600.	6755.
Stddev	.1327	.34	.9	9.0	948.	51.
%RSD	33.90	.8854	.6818	1.238	.8489	.7557

#1	-.2699	38.25	131.1	733.9	112600.	6813.
#2	-.3715	37.61	129.4	716.1	110800.	6732.
#3	-.5331	37.77	130.3	723.0	111500.	6719.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42070.	3101.	3525.	108.0	374.1	-7.411
Stddev	405.	30.	32.	1.0	1.4	1.467
%RSD	.9622	.9582	.9043	.8966	.3788	19.79

#1	42510.	3134.	3562.	108.5	375.2	-5.870
#2	41700.	3077.	3508.	106.9	372.5	-7.572
#3	42010.	3092.	3505.	108.7	374.7	-8.791

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156204-c-1-e@4 Acquired: 5/31/2018 19:19:33 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.195	-2.176	165.0	615.9	45.48	3.680
Stddev	2.434	3.576	2.0	3.8	.79	.115
%RSD	39.29	164.3	1.209	.6136	1.742	3.126
#1	-8.357	1.729	167.3	619.6	44.91	3.624
#2	-6.672	-2.969	164.0	612.0	45.14	3.604
#3	-3.558	-5.289	163.8	616.2	46.38	3.813

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	17.84	225.2	1920.	2519.
Stddev	.25	2.2	20.	78.
%RSD	1.418	.9761	1.067	3.108
#1	18.13	227.7	1943.	2606.
#2	17.69	224.3	1903.	2497.
#3	17.70	223.7	1913.	2454.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7213.8	44628.	9326.4
Stddev	32.9	383.	41.6
%RSD	.45658	.85734	.44556
#1	7182.4	44215.	9290.8
#2	7248.0	44971.	9316.4
#3	7211.0	44696.	9372.1

Sample Name: 460-156870-a-9-a@20 Acquired: 5/31/2018 19:38:56 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4766.	1.819	-.0011	698.2	.3490	32470.
Stddev	28.	1.250	.2626	6.2	.0514	90.
%RSD	.5838	68.68	23770.	.8935	14.72	.2785
#1	4798.	3.014	.1659	694.0	.3093	32490.
#2	4751.	1.924	.1346	695.2	.3307	32380.
#3	4749.	.5209	-.3038	705.4	.4070	32560.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	209.8	19.47	224.7	101.1	5643.	876.2
Stddev	.4	.19	1.3	.8	15.	13.8
%RSD	.1837	1.000	.5745	.7888	.2595	1.573
#1	209.7	19.38	225.7	100.2	5653.	874.3
#2	209.5	19.33	223.2	101.4	5626.	863.5
#3	210.2	19.69	225.2	101.7	5650.	890.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2530.	185.7	27380.	9.451	7780.	.5251
Stddev	8.	.8	127.	.118	28.	.4009
%RSD	.3104	.4074	.4644	1.254	.3644	76.35
#1	2529.	186.5	27480.	9.387	7765.	.7895
#2	2523.	185.0	27240.	9.588	7763.	.7220
#3	2538.	185.5	27420.	9.378	7813.	.0638

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156870-a-9-a@20 Acquired: 5/31/2018 19:38:56 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5450	.8752	5.126	F 27470.	25.14	.5624
Stddev	2.030	1.673	.045	106.	.94	.3935
%RSD	372.5	191.1	.8848	.3840	3.739	69.96
#1	.1859	2.228	5.098	27440.	24.07	.8959
#2	2.730	1.393	5.178	27390.	25.50	.1285
#3	-1.281	-.9950	5.102	27590.	25.84	.6629

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10.10	111.7	869.8	79.86
Stddev	.16	.6	3.5	4.87
%RSD	1.629	.5610	.4057	6.098
#1	9.995	112.4	873.1	80.80
#2	10.02	111.3	866.1	74.59
#3	10.29	111.4	870.1	84.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7085.2	44153.	9335.6
Stddev	26.2	322.	63.2
%RSD	.37047	.72895	.67729
#1	7058.2	43851.	9280.1
#2	7086.9	44115.	9404.4
#3	7110.6	44492.	9322.2

Sample Name: CCV Acquired: 5/31/2018 21:09:00 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122000.	2447.	1211.	10040.	979.8	121900.
Stddev	1401.	22.	14.	92.	11.8	1510.
%RSD	1.149	.8789	1.154	.9111	1.201	1.238

#1	123300.	2472.	1226.	10150.	990.7	123600.
#2	122100.	2432.	1206.	9988.	981.5	121000.
#3	120500.	2437.	1200.	9995.	967.3	121000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1240.	2491.	4965.	12220.	98510.	48250.
Stddev	12.	24.	56.	143.	1250.	501.
%RSD	.9521	.9465	1.126	1.170	1.269	1.039

#1	1253.	2519.	5030.	12380.	99950.	48650.
#2	1233.	2479.	4931.	12140.	97750.	48420.
#3	1233.	2476.	4935.	12120.	97820.	47690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121700.	5124.	123600.	2523.	7433.	965.0
Stddev	1639.	60.	1400.	24.	77.	7.1
%RSD	1.347	1.162	1.133	.9483	1.040	.7403

#1	123600.	5193.	124900.	2550.	7522.	970.7
#2	120700.	5092.	123800.	2510.	7391.	956.9
#3	120800.	5088.	122100.	2508.	7387.	967.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 21:09:00 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2427.	2499.	2469.	2505.	967.9	2427.
Stddev	23.	24.	31.	31.	6.7	23.
%RSD	.9548	.9480	1.246	1.248	.6962	.9536

#1	2453.	2526.	2505.	2540.	975.1	2453.
#2	2409.	2483.	2452.	2496.	961.8	2411.
#3	2419.	2487.	2450.	2479.	966.8	2415.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	988.5	4930.	9913.	9455.
Stddev	11.1	54.	162.	94.
%RSD	1.124	1.099	1.631	.9933

#1	1001.	4981.	10100.	9556.
#2	983.4	4935.	9835.	9370.
#3	980.8	4873.	9805.	9438.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6661.7	41009.	8774.0
Stddev	59.4	503.	106.4
%RSD	.89154	1.2273	1.2123

#1	6594.1	40429.	8684.2
#2	6686.0	41259.	8746.4
#3	6705.2	41338.	8891.5

Sample Name: CCB Acquired: 5/31/2018 21:12:43 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0131	1.045	.1380	.4532	.0311	25.80
Stddev	5.371	.819	.3788	.3460	.0610	5.08
%RSD	41080.	78.38	274.5	76.35	196.5	19.69

#1	5.605	1.901	.2618	.8194	.0983	28.14
#2	-5.107	.9642	.4395	.1316	-.0209	19.97
#3	-.4589	.2692	-.2872	.4086	.0158	29.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0826	-.0955	.2565	.1434	9.183	-21.29
Stddev	.0239	.1058	.3886	.6860	11.63	15.10
%RSD	28.90	110.8	151.5	478.5	126.6	70.93

#1	.0588	.0162	.6640	.8698	22.60	-29.00
#2	.0824	-.1084	.2154	.0536	2.311	-3.889
#3	.1066	-.1943	-.1099	-.4933	2.633	-30.97

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.554	.2443	15.53	.4531	.3119	.5630
Stddev	6.228	.2079	5.33	.4351	1.512	.6866
%RSD	175.3	85.10	34.35	96.02	484.6	121.9

#1	2.792	.4826	21.07	.7120	2.029	.8128
#2	-9.658	.1497	15.08	-.0492	-.8168	1.090
#3	-3.795	.1005	10.43	.6966	-.2768	-.2135

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 21:12:43 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3743	2.939	.3143	-.5891	2.666	1.127
Stddev	1.102	1.033	.2223	.1523	1.242	.769
%RSD	294.4	35.13	70.73	25.85	46.60	68.18
#1	-.3672	1.878	.3900	-.4812	2.091	1.984
#2	1.640	2.998	.4890	-.7634	4.092	.8991
#3	-.1502	3.941	.0641	-.5228	1.816	.4987

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2103	.1987	2.407	3.026
Stddev	.3964	.1261	1.431	29.49
%RSD	188.5	63.47	59.46	974.6
#1	-.2408	.3434	4.020	-4.845
#2	.5034	.1121	1.915	35.65
#3	.3682	.1406	1.287	-21.73

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7152.7	46074.	8979.3
Stddev	219.3	1686.	401.8
%RSD	3.0663	3.6590	4.4741
#1	7283.7	45330.	9167.5
#2	6899.5	44888.	9252.4
#3	7274.9	48004.	8518.0

Sample Name: 460-156778-f-12-a@4 Acquired: 5/31/2018 21:20:41 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51550.	7.143	-1.007	3115.	6.037	7893.
Stddev	324.	1.442	.091	8.	.074	141.
%RSD	.6291	20.18	9.088	.2686	1.231	1.781

#1	51210.	5.949	-1.113	3105.	5.972	7790.
#2	51580.	6.736	-.9550	3118.	6.022	7837.
#3	51860.	8.745	-.9536	3121.	6.118	8053.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.440	64.18	125.6	46.48	157700.	9500.
Stddev	.660	.39	2.3	.65	2106.	45.
%RSD	19.20	.6072	1.837	1.393	1.335	.4705

#1	-2.735	63.75	122.9	46.46	155600.	9449.
#2	-3.541	64.28	126.9	45.84	157700.	9527.
#3	-4.045	64.50	126.9	47.13	159900.	9526.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25480.	F 10260.	546.7	172.1	180.7	-13.99
Stddev	431.	121.	9.5	1.7	1.9	.89
%RSD	1.690	1.178	1.737	.9781	1.038	6.388

#1	25060.	10130.	543.4	171.2	178.9	-14.95
#2	25470.	10280.	539.2	171.0	180.7	-13.19
#3	25920.	10380.	557.4	174.0	182.6	-13.83

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.				
Low Limit		-15.00				

Sample Name: 460-156778-f-12-a@4 Acquired: 5/31/2018 21:20:41 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -12.89	-9160	143.9	431.8	67.54	2.211
Stddev	1.80	.9425	1.8	1.9	.90	.454
%RSD	13.98	102.9	1.227	.4303	1.339	20.51
#1	-10.81	-.3414	142.1	432.1	66.81	2.426
#2	-13.94	-2.004	144.1	429.8	67.26	2.518
#3	-13.92	-.4029	145.6	433.5	68.55	1.691

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	5000.					
Low Limit	-10.00					

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.374	58.23	1266.	1430.
Stddev	.398	.09	8.	20.
%RSD	7.401	.1487	.6207	1.379
#1	5.527	58.29	1259.	1452.
#2	4.922	58.13	1265.	1423.
#3	5.673	58.27	1274.	1415.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7437.9	45872.	9458.4
Stddev	24.2	161.	121.2
%RSD	.32547	.35123	1.2812
#1	7413.2	45818.	9596.5
#2	7439.1	46052.	9369.6
#3	7461.6	45744.	9409.3

Sample Name: CCVL Acquired: 5/31/2018 21:16:44 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	158.1	13.71	8.271	187.7	1.736	4385.
Stddev	5.5	.35	.142	4.6	.122	129.
%RSD	3.470	2.524	1.712	2.439	7.041	2.945

#1	158.9	13.41	8.372	184.2	1.602	4320.
#2	152.3	14.09	8.109	185.9	1.764	4302.
#3	163.2	13.62	8.331	192.9	1.841	4534.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.768	46.84	9.095	21.52	142.3	4094.
Stddev	.139	1.28	.281	.82	8.2	138.
%RSD	3.696	2.729	3.095	3.790	5.745	3.376

#1	3.614	45.90	9.260	21.06	133.1	3986.
#2	3.884	46.33	8.770	21.03	148.6	4046.
#3	3.806	48.29	9.256	22.46	145.3	4250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4367.	14.51	4212.	38.41	9.394	17.95
Stddev	211.	.62	184.	1.29	1.543	.78
%RSD	4.837	4.296	4.365	3.344	16.42	4.322

#1	4217.	14.13	4125.	37.10	7.842	17.84
#2	4276.	14.17	4087.	38.46	9.415	17.24
#3	4609.	15.23	4423.	39.67	10.93	18.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 21:16:44 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.25	23.03	45.38	29.49	42.79	17.97
Stddev	2.05	.52	2.66	.99	2.04	.43
%RSD	12.62	2.243	5.854	3.354	4.779	2.393
#1	16.53	22.93	43.68	28.91	41.37	17.49
#2	14.07	23.59	44.02	28.93	41.87	18.07
#3	18.15	22.57	48.44	30.63	45.14	18.34

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	46.30	17.52	19.14	F 3.146
Stddev	1.87	.76	.83	12.37
%RSD	4.040	4.310	4.352	393.2
#1	44.69	16.95	18.60	-10.45
#2	45.85	17.23	18.72	6.170
#3	48.35	18.37	20.10	13.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7133.0	43851.	8986.7
Stddev	162.1	1096.	304.1
%RSD	2.2726	2.4983	3.3843
#1	7255.2	44343.	9100.6
#2	7194.8	44615.	9217.5
#3	6949.1	42596.	8642.1

Sample Name: 460-156901-b-8-d@4 Acquired: 5/31/2018 21:28:30 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28500.	9.071	-7.027	255.9	1.906	28530.
Stddev	274.	.829	.3226	1.3	.067	78.
%RSD	.9612	9.143	45.91	.4897	3.492	.2745
#1	28800.	8.621	-.3848	257.2	1.846	28620.
#2	28420.	10.03	-1.030	254.7	1.894	28490.
#3	28270.	8.564	-.6935	255.9	1.978	28470.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4506	26.39	67.73	106.8	61830.	4906.
Stddev	.1022	.04	.46	.6	133.	67.
%RSD	22.67	.1418	.6847	.5600	.2143	1.372
#1	-.3720	26.36	68.22	107.5	61980.	4975.
#2	-.4138	26.43	67.66	106.4	61760.	4902.
#3	-.5661	26.38	67.30	106.6	61750.	4840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13890.	1786.	921.2	62.35	198.3	-4.017
Stddev	59.	3.	12.4	1.05	11.6	.619
%RSD	.4268	.1933	1.345	1.687	5.846	15.41
#1	13950.	1790.	928.7	61.22	185.1	-3.307
#2	13870.	1785.	927.9	63.30	203.2	-4.299
#3	13840.	1784.	906.9	62.52	206.7	-4.445

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156901-b-8-d@4 Acquired: 5/31/2018 21:28:30 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.887	1.162	125.5	250.9	59.73	1.320
Stddev	1.369	.784	.3	8.1	3.18	.216
%RSD	47.42	67.45	.2211	3.237	5.325	16.38
#1	-3.496	.6314	125.7	241.6	56.10	1.115
#2	-3.847	.7920	125.6	254.6	61.03	1.546
#3	-1.319	2.062	125.2	256.6	62.05	1.300

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	12.67	101.0	1708.	1860.
Stddev	.65	1.0	3.	16.
%RSD	5.160	1.037	.1911	.8793
#1	11.96	102.1	1712.	1841.
#2	12.80	100.7	1707.	1865.
#3	13.24	100.1	1706.	1873.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7303.0	45246.	9141.2
Stddev	50.1	199.	147.2
%RSD	.68575	.43993	1.6105
#1	7290.3	45024.	8975.8
#2	7358.2	45409.	9257.9
#3	7260.5	45306.	9189.9

Sample Name: 460-157010-d-8-a Acquired: 5/31/2018 21:44:22 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.145	.4880	.3988	.1410	.0120	23.55
Stddev	.901	.2040	.2725	.1010	.0123	10.06
%RSD	28.64	41.81	68.34	71.63	102.9	42.71

#1	3.906	.5274	.1210	.1060	-.0021	34.77
#2	2.151	.6694	.6657	.2549	.0210	20.50
#3	3.378	.2671	.4097	.0622	.0169	15.36

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0631	-.0336	.0038	-.3702	7.684	-2.722
Stddev	.0377	.0744	.1340	.2432	9.352	24.59
%RSD	59.71	221.2	3541.	65.69	121.7	903.3

#1	-.0946	-.1054	.1215	-.4838	5.467	-2.271
#2	-.0214	.0431	.0318	-.5359	17.95	-27.53
#3	-.0733	-.0385	-.1420	-.0910	-.3604	21.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.045	.1974	66.60	.3026	.1039	-.4058
Stddev	3.399	.1111	26.86	.1146	.7231	.2175
%RSD	166.2	56.29	40.34	37.86	695.7	53.61

#1	-1.290	.3177	96.28	.2304	.1522	-.2882
#2	.9136	.1760	59.58	.4347	-.6421	-.2723
#3	-5.758	.0986	43.94	.2426	.8017	-.6568

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-d-8-a Acquired: 5/31/2018 21:44:22 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.161	1.740	-.0026	.0582	-3.437	-.4065
Stddev	1.161	1.421	.3103	.0683	.637	.2834
%RSD	36.73	81.63	11880.	117.4	18.53	69.70
#1	-2.870	2.391	-.2815	.1229	-4.160	-.1409
#2	-4.440	2.720	-.0580	-.0133	-3.190	-.3739
#3	-2.173	.1111	.3316	.0650	-2.961	-.7048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3409	.1404	-.0269	F -227.3
Stddev	.3274	.0524	.0639	9.1
%RSD	96.02	37.33	237.7	3.999
#1	-.6404	.2008	.0309	-220.7
#2	.0085	.1063	-.0956	-237.7
#3	-.3909	.1142	-.0160	-223.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20000.
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7281.4	44842.	9036.6
Stddev	40.2	77.	27.3
%RSD	.55194	.17076	.30176
#1	7300.8	44898.	9012.7
#2	7235.2	44755.	9066.3
#3	7308.3	44873.	9030.9

Sample Name: pds 460-156248-a-2-z Acquired: 5/31/2018 21:48:23 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24470.	1923.	45.97	2161.	50.12	29730.
Stddev	150.	7.	.34	4.	.36	116.
%RSD	.6123	.3833	.7396	.1923	.7141	.3893

#1	24640.	1914.	46.36	2160.	50.53	29860.
#2	24350.	1928.	45.84	2158.	49.94	29660.
#3	24430.	1926.	45.72	2166.	49.89	29650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.03	527.4	238.4	280.0	29260.	19850.
Stddev	.19	1.1	1.4	.9	19.	184.
%RSD	.3699	.2063	.5758	.3291	.0665	.9244

#1	50.84	526.6	240.0	279.3	29270.	20040.
#2	51.03	526.9	237.4	279.6	29240.	19670.
#3	51.22	528.6	237.8	281.0	29270.	19830.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22250.	824.8	19650.	537.1	922.6	481.3
Stddev	109.	2.3	157.	1.7	3.9	1.3
%RSD	.4895	.2818	.7971	.3159	.4196	.2798

#1	22370.	826.7	19820.	536.8	920.8	479.9
#2	22160.	822.2	19510.	535.6	920.0	481.4
#3	22220.	825.5	19630.	539.0	927.1	482.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-156248-a-2-z Acquired: 5/31/2018 21:48:23 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1933.	2171.	581.2	678.7	494.5	509.9
Stddev	11.	11.	2.1	2.8	3.1	3.7
%RSD	.5818	.5181	.3544	.4154	.6245	.7161
#1	1936.	2180.	583.0	676.2	494.9	509.5
#2	1921.	2159.	578.9	678.2	491.2	506.5
#3	1942.	2174.	581.8	681.7	497.4	513.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	516.3	519.9	1088.	746.1
Stddev	2.7	3.9	3.	19.6
%RSD	.5271	.7461	.2779	2.627
#1	517.1	523.6	1089.	726.7
#2	513.3	515.9	1084.	745.7
#3	518.6	520.3	1090.	765.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7047.7	43923.	9144.1
Stddev	10.1	326.	140.7
%RSD	.14304	.74325	1.5388
#1	7040.7	43551.	8989.9
#2	7043.0	44055.	9177.0
#3	7059.2	44162.	9265.5

Sample Name: 460-156248-a-2-ab.ms Acquired: 5/31/2018 21:52:01 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26370.	973.6	23.26	1151.	25.86	19860.
Stddev	325.	16.5	.53	17.	.14	140.
%RSD	1.233	1.697	2.278	1.465	.5575	.7054

#1	26700.	992.3	23.03	1169.	25.95	20020.
#2	26360.	967.6	23.87	1147.	25.94	19790.
#3	26050.	960.9	22.89	1136.	25.70	19770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.26	274.4	144.5	166.1	30080.	10800.
Stddev	.26	4.2	.8	1.1	298.	158.
%RSD	.9733	1.521	.5518	.6357	.9904	1.465

#1	26.56	278.9	145.4	167.0	30400.	10960.
#2	26.10	273.7	144.0	166.4	30050.	10800.
#3	26.13	270.6	144.0	164.9	29810.	10640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12890.	606.7	10070.	283.9	666.6	166.3
Stddev	108.	7.1	118.	3.8	6.2	4.0
%RSD	.8371	1.165	1.169	1.337	.9351	2.401

#1	13010.	614.3	10190.	287.9	672.6	170.8
#2	12870.	605.2	10070.	283.4	667.0	164.7
#3	12800.	600.4	9951.	280.3	660.1	163.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156248-a-2-ab.ms Acquired: 5/31/2018 21:52:01 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	985.8	1130.	322.4	444.4	258.7	263.3
Stddev	11.7	2.	1.7	2.7	2.8	1.1
%RSD	1.184	.1825	.5327	.6049	1.095	.4112
#1	999.0	1132.	324.1	441.7	261.4	264.3
#2	977.0	1128.	322.4	447.1	258.9	263.2
#3	981.3	1129.	320.7	444.3	255.7	262.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	259.0	281.7	924.3	962.8
Stddev	1.7	3.8	13.0	41.3
%RSD	.6383	1.366	1.403	4.285
#1	258.4	285.7	937.7	1005.
#2	260.9	281.4	923.3	960.1
#3	257.7	278.0	911.8	923.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7148.9	44792.	9265.0
Stddev	107.9	576.	99.1
%RSD	1.5095	1.2857	1.0698
#1	7027.7	44164.	9155.7
#2	7184.4	44918.	9290.2
#3	7234.6	45295.	9349.1

Sample Name: lcssrm 460-523710/2- Acquired: 5/31/2018 21:55:43 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39220.	270.7	232.9	907.0	283.2	21370.
Stddev	299.	1.6	1.7	1.9	2.9	275.
%RSD	.7633	.5977	.7503	.2128	1.030	1.286

#1	39560.	270.4	233.4	904.8	286.4	21690.
#2	39000.	269.3	231.0	907.6	280.8	21190.
#3	39090.	272.5	234.4	908.5	282.3	21240.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1222.	223.8	325.3	531.8	69720.	8852.
Stddev	2.	.2	2.8	.7	653.	64.
%RSD	.1651	.0721	.8695	.1233	.9362	.7198

#1	1225.	223.6	328.5	532.1	70460.	8925.
#2	1221.	223.9	323.0	531.0	69220.	8821.
#3	1222.	223.9	324.4	532.2	69480.	8809.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10180.	1082.	11080.	759.5	814.9	322.0
Stddev	115.	9.	77.	.7	2.3	3.9
%RSD	1.131	.8754	.6913	.0927	.2842	1.219

#1	10320.	1093.	11160.	760.1	816.6	317.5
#2	10120.	1074.	11020.	758.7	812.3	324.1
#3	10110.	1080.	11050.	759.7	815.8	324.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcssrm 460-523710/2- Acquired: 5/31/2018 21:55:43 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	686.1	1031.	604.4	601.4	580.1	375.6
Stddev	5.2	9.	3.9	3.6	10.8	5.5
%RSD	.7582	.8832	.6533	.5962	1.862	1.472
#1	680.1	1020.	608.9	605.5	567.8	369.3
#2	689.4	1037.	601.7	599.3	584.8	378.2
#3	688.9	1035.	602.6	599.4	587.8	379.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	691.5	435.6	3436.	541.3
Stddev	7.9	2.3	14.	26.2
%RSD	1.136	.5228	.3929	4.848
#1	682.7	437.9	3450.	516.0
#2	694.3	433.3	3423.	539.5
#3	697.6	435.8	3436.	568.4

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7312.4	45189.	9300.4
Stddev	14.9	455.	200.2
%RSD	.20364	1.0071	2.1531
#1	7314.5	44666.	9084.3
#2	7326.2	45497.	9337.2
#3	7296.6	45404.	9479.7

Sample Name: CCVL Acquired: 5/31/2018 22:07:08 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	152.0	12.99	7.960	185.9	1.669	4312.
Stddev	3.8	1.15	.324	7.6	.065	152.
%RSD	2.481	8.815	4.075	4.096	3.906	3.516

#1	156.1	13.68	7.746	180.4	1.622	4155.
#2	148.7	13.63	7.800	194.6	1.641	4324.
#3	151.2	11.67	8.333	182.6	1.743	4457.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.713	46.50	9.385	20.70	132.5	4010.
Stddev	.246	1.66	.467	.51	13.5	160.
%RSD	6.622	3.575	4.970	2.450	10.16	3.985

#1	3.588	45.20	9.128	20.13	124.9	3885.
#2	3.997	48.37	9.103	20.88	124.6	3956.
#3	3.556	45.92	9.923	21.09	148.0	4190.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4290.	14.23	4103.	38.58	8.826	17.71
Stddev	167.	.64	113.	1.15	.471	1.32
%RSD	3.894	4.482	2.758	2.982	5.340	7.469

#1	4140.	13.67	4014.	37.43	9.184	17.28
#2	4261.	14.11	4064.	39.74	8.292	19.19
#3	4470.	14.92	4230.	38.57	9.001	16.65

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 22:07:08 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.39	22.16	44.90	29.76	43.61	17.90
Stddev	1.56	1.68	2.30	1.25	2.31	.59
%RSD	9.528	7.566	5.121	4.210	5.291	3.269

#1	15.06	20.24	43.16	28.48	41.20	17.37
#2	18.11	22.95	44.02	30.98	45.79	18.53
#3	16.00	23.30	47.51	29.81	43.83	17.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.83	17.00	18.79	F -17.19
Stddev	2.24	.48	.90	8.06
%RSD	4.880	2.814	4.782	46.91

#1	43.79	16.73	18.08	-8.053
#2	48.22	16.72	18.48	-23.32
#3	45.49	17.55	19.80	-20.20

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7208.6	44579.	8993.8
Stddev	215.7	1079.	290.9
%RSD	2.9926	2.4198	3.2342

#1	7361.5	45735.	9312.4
#2	6961.8	44403.	8926.9
#3	7302.5	43600.	8742.3

Sample Name: 460-156901-a-4-f@4 Acquired: 5/31/2018 21:24:39 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22060.	6.374	-3183	217.3	1.446	19830.
Stddev	140.	.475	.2776	1.0	.011	90.
%RSD	.6324	7.454	87.21	.4410	.7884	.4550
#1	22080.	5.827	-.5470	216.7	1.445	19760.
#2	21910.	6.617	-.0095	216.9	1.458	19810.
#3	22190.	6.679	-.3985	218.4	1.435	19930.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2212	21.57	54.39	80.59	43950.	3932.
Stddev	.0165	.53	.18	.14	127.	68.
%RSD	7.453	2.473	.3226	.1724	.2895	1.734
#1	-.2024	20.96	54.19	80.48	43970.	4009.
#2	-.2331	21.81	54.46	80.54	43810.	3907.
#3	-.2281	21.95	54.52	80.74	44070.	3881.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8999.	1624.	729.8	50.32	89.12	-3.256
Stddev	19.	4.	2.6	1.28	2.24	.391
%RSD	.2057	.2282	.3589	2.542	2.509	12.00
#1	8995.	1623.	731.7	49.18	86.88	-3.172
#2	8983.	1621.	730.9	50.08	89.12	-3.681
#3	9019.	1628.	726.8	51.71	91.35	-2.913

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156901-a-4-f@4 Acquired: 5/31/2018 21:24:39 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2236	-.4893	86.14	191.4	50.05	1.028
Stddev	1.179	1.214	.69	7.3	2.82	.133
%RSD	527.4	248.0	.8056	3.830	5.633	12.97
#1	1.110	-1.208	85.54	185.4	47.29	1.122
#2	-.6505	.9118	85.97	189.1	49.94	.8758
#3	-1.130	-1.171	86.90	199.6	52.93	1.087

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.056	80.83	1150.	1187.
Stddev	.263	.30	4.	17.
%RSD	3.728	.3699	.3432	1.426
#1	6.760	81.02	1148.	1170.
#2	7.263	80.49	1147.	1185.
#3	7.145	80.99	1155.	1204.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7207.6	44901.	9253.2
Stddev	24.6	324.	91.0
%RSD	.34172	.72093	.98315
#1	7202.1	44537.	9153.0
#2	7234.5	45158.	9330.6
#3	7186.1	45007.	9276.1

Sample Name: 460-157055-g-1-a Acquired: 5/31/2018 21:36:19 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87.43	.6482	-.0500	485.4	.1097	82440.
Stddev	14.83	1.261	.2210	4.1	.0345	823.
%RSD	16.96	194.6	442.0	.8500	31.42	.9986

#1	102.4	-.3503	-.2124	481.0	.1484	81570.
#2	72.72	.2295	-.1392	489.2	.0985	83210.
#3	87.21	2.066	.2016	486.0	.0822	82550.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6631	-.5910	.5145	.0237	28060.	2158.
Stddev	.0856	.0873	.6989	.3810	224.	50.
%RSD	12.91	14.78	135.8	1611.	.7965	2.305

#1	-.5817	-.4916	1.057	.4579	27830.	2101.
#2	-.7524	-.6261	-.2742	-.2545	28280.	2179.
#3	-.6553	-.6554	.7610	-.1324	28060.	2194.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36360.	3495.	F 311700.	2.040	-2.556	-4.956
Stddev	239.	24.	3249.	.720	.819	.950
%RSD	.6569	.6835	1.042	35.31	32.04	19.17

#1	36170.	3473.	309700.	2.648	-3.074	-4.812
#2	36630.	3520.	315400.	2.226	-2.983	-5.971
#3	36280.	3492.	309900.	1.245	-1.612	-4.087

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-157055-g-1-a Acquired: 5/31/2018 21:36:19 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.822	1.562	6.640	-1.162	396.5	-0.0913
Stddev	1.470	1.578	.228	.0507	18.5	.2874
%RSD	52.08	101.0	3.440	43.60	4.672	314.9
#1	-1.127	-.2584	6.731	-.0647	382.7	-.4232
#2	-3.745	2.399	6.380	-.1659	389.2	.0737
#3	-3.595	2.545	6.809	-.1180	417.6	.0756

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2922	300.8	3.563	12540.
Stddev	.8335	2.6	.111	10.
%RSD	285.3	.8635	3.124	.0774
#1	-.2567	302.5	3.578	12530.
#2	-1.143	302.1	3.667	12550.
#3	.5230	297.8	3.446	12540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6717.1	41097.	8874.9
Stddev	18.2	133.	157.5
%RSD	.27134	.32299	1.7753
#1	6738.1	41184.	9053.6
#2	6708.2	40944.	8756.3
#3	6705.0	41163.	8814.6

Sample Name: 460-156869-d-1-a Acquired: 5/31/2018 21:32:22 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.84	1.030	.1978	562.9	-.0193	85610.
Stddev	2.10	.862	.2052	18.9	.0227	2505.
%RSD	11.78	83.69	103.8	3.364	118.0	2.926

#1	19.67	1.349	.4319	549.4	.0039	84130.
#2	18.30	.0540	.1130	554.7	-.0201	84210.
#3	15.54	1.687	.0486	584.6	-.0416	88510.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7996	3.528	.3942	.0746	13.96	2152.
Stddev	.1484	.196	.1202	.3015	7.70	69.
%RSD	18.56	5.561	30.49	404.2	55.20	3.207

#1	.6389	3.304	.2642	.1093	18.74	2104.
#2	.9315	3.613	.4174	-.2428	18.06	2121.
#3	.8283	3.668	.5012	.3573	5.068	2231.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23870.	1674.	33150.	11.05	-1.141	-.9371
Stddev	692.	51.	1252.	.17	.504	1.609
%RSD	2.899	3.053	3.777	1.501	44.19	171.7

#1	23450.	1642.	32330.	11.12	-1.271	-2.560
#2	23480.	1646.	32520.	10.86	-.5847	-.9085
#3	24670.	1733.	34590.	11.17	-1.568	.6573

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156869-d-1-a Acquired: 5/31/2018 21:32:22 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.173	3.993	2.630	6.428	32.10	1.137
Stddev	2.924	1.233	.074	.333	2.53	.213
%RSD	92.15	30.89	2.814	5.172	7.890	18.71

#1	-0.0762	4.345	2.676	6.278	30.08	.9410
#2	-3.557	5.011	2.545	6.196	31.27	1.106
#3	-5.887	2.621	2.670	6.809	34.94	1.363

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-3.331	212.1	1.800	4844.
Stddev	.4313	8.1	.259	194.
%RSD	129.5	3.799	14.38	4.008

#1	.1627	207.0	2.097	4681.
#2	-.5396	207.8	1.687	4792.
#3	-.6223	221.3	1.617	5059.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6869.7	42653.	8920.3
Stddev	162.6	991.	240.0
%RSD	2.3668	2.3233	2.6903

#1	6989.2	43271.	9090.9
#2	6935.4	43179.	9024.0
#3	6684.5	41510.	8645.9

Sample Name: 460-157055-g-2-a Acquired: 5/31/2018 21:40:21 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	417.3	3.724	-.3589	342.5	.0497	166200.
Stddev	4.1	2.344	.3542	9.4	.0263	1619.
%RSD	.9781	62.95	98.68	2.734	52.94	.9744

#1	419.0	6.399	-.0332	335.3	.0688	165000.
#2	412.6	2.748	-.7359	339.1	.0606	168000.
#3	420.2	2.025	-.3076	353.1	.0197	165500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0354	2.667	-.5048	1.627	4465.	10730.
Stddev	.0351	.028	.2840	.225	79.	66.
%RSD	99.04	1.057	56.27	13.81	1.775	.6130

#1	.0040	2.655	-.5576	1.574	4381.	10700.
#2	-.0471	2.699	-.7587	1.873	4538.	10810.
#3	-.0632	2.646	-.1981	1.434	4478.	10690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19700.	1173.	F 457000.	4.712	-4.504	-1.877
Stddev	155.	10.	1698.	.218	.492	.064
%RSD	.7843	.8819	.3715	4.625	10.91	3.395

#1	19620.	1166.	455100.	4.603	-4.357	-1.815
#2	19880.	1185.	458300.	4.963	-4.103	-1.943
#3	19600.	1169.	457500.	4.569	-5.053	-1.873

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-157055-g-2-a Acquired: 5/31/2018 21:40:21 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.751	4.000	3.008	6.280	181.1	.4615
Stddev	2.995	1.837	.169	.512	10.9	.1462
%RSD	108.9	45.92	5.615	8.160	6.043	31.69
#1	-3.986	3.200	3.187	6.120	175.6	.3951
#2	-4.931	6.101	2.852	5.867	173.9	.3602
#3	.6637	2.699	2.984	6.854	193.7	.6291

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0620	1170.	16.09	9598.
Stddev	.1866	8.	2.77	275.
%RSD	301.1	.6960	17.25	2.864
#1	-.0872	1165.	14.59	9395.
#2	.1359	1180.	14.38	9489.
#3	-.2347	1166.	19.29	9911.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6524.2	40564.	8985.0
Stddev	128.2	288.	86.6
%RSD	1.9646	.71115	.96404
#1	6611.1	40660.	8964.2
#2	6584.6	40239.	8910.6
#3	6377.0	40792.	9080.1

Sample Name: CCV Acquired: 5/31/2018 21:59:25 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128200.	2455.	1221.	10120.	1035.	124500.
Stddev	11270.	63.	39.	260.	88.	3684.
%RSD	8.787	2.572	3.216	2.565	8.549	2.959

#1	121700.	2400.	1189.	9896.	984.8	121600.
#2	121800.	2441.	1210.	10060.	982.4	123200.
#3	141200.	2524.	1265.	10400.	1137.	128600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1257.	2499.	5065.	12350.	100000.	50730.
Stddev	32.	65.	159.	425.	3147.	4465.
%RSD	2.511	2.592	3.136	3.442	3.147	8.802

#1	1230.	2444.	4937.	11990.	97570.	48160.
#2	1249.	2483.	5015.	12230.	98910.	48150.
#3	1292.	2570.	5243.	12820.	103600.	55890.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123100.	5203.	129800.	2534.	7477.	971.4
Stddev	3860.	166.	11120.	67.	203.	25.8
%RSD	3.135	3.199	8.572	2.634	2.711	2.656

#1	120100.	5071.	123400.	2473.	7306.	946.4
#2	121800.	5148.	123300.	2524.	7424.	969.9
#3	127400.	5390.	142600.	2605.	7701.	997.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 21:59:25 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2420.	2508.	2491.	2560.	964.6	2439.
Stddev	62.	59.	81.	67.	26.9	63.
%RSD	2.571	2.365	3.256	2.605	2.791	2.600
#1	2362.	2458.	2425.	2506.	941.0	2384.
#2	2414.	2492.	2466.	2540.	958.8	2423.
#3	2486.	2573.	2581.	2634.	993.9	2508.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	995.6	5137.	9894.	9376.
Stddev	26.5	452.	315.	431.
%RSD	2.658	8.801	3.185	4.601
#1	972.7	4874.	9620.	9036.
#2	989.4	4878.	9823.	9231.
#3	1025.	5659.	10240.	9861.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6789.5	41548.	8398.3
Stddev	158.1	1045.	542.9
%RSD	2.3292	2.5151	6.4646
#1	6925.9	42368.	8664.5
#2	6826.5	41906.	8756.8
#3	6616.1	40372.	7773.7

Sample Name: CCB Acquired: 5/31/2018 22:03:08 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.240	.1749	-.0143	.3263	-.0353	9.828
Stddev	17.25	1.799	.0634	.0794	.0553	.842
%RSD	770.0	1029.	444.2	24.32	156.9	8.569
#1	-21.17	.0721	-.0252	.3735	-.0929	10.37
#2	12.58	-1.570	-.0715	.2346	.0174	8.857
#3	1.874	2.023	.0539	.3706	-.0303	10.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1516	-.0414	.1340	.0007	13.14	-8.668
Stddev	.1114	.1277	.1045	.1412	9.53	10.63
%RSD	73.51	308.6	77.94	18920.	72.51	122.6
#1	.2748	.1060	.2247	.1440	4.388	-13.84
#2	.0581	-.1166	.0198	-.1384	11.74	3.556
#3	.1218	-.1135	.1575	-.0034	23.29	-15.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.484	.2141	22.00	.5079	-.0378	-.1918
Stddev	3.815	.0454	2.38	.1513	.3515	1.276
%RSD	153.6	21.21	10.82	29.79	929.2	665.4
#1	1.427	.2431	20.85	.6008	-.2774	1.267
#2	-2.682	.1618	20.41	.3333	.3657	-1.102
#3	-6.196	.2374	24.73	.5897	-.2017	-.7399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 22:03:08 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.7395	1.441	0.0544	-0.6769	3.648	1.324
Stddev	1.329	.400	.2702	.1804	.790	.222
%RSD	179.8	27.73	496.6	26.65	21.66	16.79
#1	.6595	.9993	.3504	-.5676	2.849	1.567
#2	-1.986	1.778	-.0082	-.5780	4.429	1.274
#3	-.8921	1.545	-.1790	-.8852	3.666	1.131

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	0.2747	0.1376	2.451	11.38
Stddev	.1250	.0555	1.180	13.32
%RSD	45.52	40.36	48.16	117.1
#1	.1969	.2008	3.792	.4505
#2	.4189	.1156	1.992	7.472
#3	.2083	.0964	1.569	26.22

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7115.0	44295.	9046.1
Stddev	202.8	467.	108.1
%RSD	2.8508	1.0551	1.1945
#1	7315.2	44758.	9097.0
#2	6909.6	44303.	9119.4
#3	7120.3	43823.	8922.0

Sample Name: mb 460-523710/1-a@2 Acquired: 5/31/2018 22:11:23 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.203	.0518	.0009	.0615	.0029	4.330
Stddev	6.646	.7163	.1059	.1094	.0065	3.704
%RSD	552.4	1384.	11880.	177.8	223.5	85.55
#1	-4.657	.6544	.0975	.0057	.0046	8.606
#2	-5.411	-.7402	-.1124	.1876	-.0043	2.203
#3	6.458	.2410	.0176	-.0087	.0084	2.180

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0518	-.1007	.0459	-.4077	-3.088	-36.63
Stddev	.0389	.0608	.0978	.2247	1.473	20.37
%RSD	75.03	60.38	213.2	55.10	47.71	55.62
#1	.0647	-.1545	.1522	-.1710	-3.317	-31.37
#2	.0826	-.1129	-.0404	-.4342	-1.514	-59.11
#3	.0081	-.0347	.0259	-.6180	-4.433	-19.40

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.813	.0542	11.71	.4624	-.8156	.0166
Stddev	.984	.0438	9.52	.1605	.8626	.5526
%RSD	16.92	80.94	81.35	34.70	105.8	3324.
#1	-5.389	.0296	9.351	.5353	-.7258	-.1428
#2	-5.113	.0281	22.19	.5735	-1.720	.6315
#3	-6.938	.1048	3.582	.2785	-.0013	-.4387

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-523710/1-a@2 Acquired: 5/31/2018 22:11:23 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2410	1.292	-.1418	-.9697	1.434	.0033
Stddev	.3739	.514	.1844	.1389	.711	.2715
%RSD	155.1	39.77	130.0	14.32	49.59	8305.
#1	.1968	1.330	-.2899	-1.001	.6139	.2717
#2	-.1088	.7598	.0647	-.8180	1.876	-.2712
#3	.6350	1.785	-.2003	-1.091	1.812	.0093

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4972	.0236	.2411	-2.819
Stddev	.5221	.0732	.1302	22.06
%RSD	105.0	310.2	54.01	782.6
#1	-.9644	.0697	.3730	-10.67
#2	-.5936	.0619	.2377	-19.88
#3	.0664	-.0608	.1126	22.09

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7266.4	44417.	8922.1
Stddev	22.5	126.	55.9
%RSD	.31008	.28321	.62620
#1	7242.5	44292.	8944.6
#2	7269.5	44415.	8858.5
#3	7287.3	44544.	8963.3

Sample Name: 460-156248-b-2-s.ms Acquired: 5/31/2018 22:15:24 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27850.	952.3	22.92	1139.	25.48	20010.
Stddev	137.	8.5	.20	5.	.09	126.
%RSD	.4918	.8938	.8711	.4222	.3540	.6296

#1	27710.	942.5	22.97	1134.	25.39	19920.
#2	27990.	956.7	23.09	1140.	25.50	20160.
#3	27850.	957.7	22.70	1143.	25.57	19970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.03	272.0	142.3	158.5	30530.	10840.
Stddev	.18	1.7	.4	2.4	113.	47.
%RSD	.7041	.6118	.3004	1.518	.3716	.4347

#1	25.82	270.2	141.9	157.0	30400.	10780.
#2	26.08	272.1	142.3	157.3	30610.	10870.
#3	26.18	273.5	142.8	161.3	30580.	10860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13220.	579.1	9888.	282.2	680.8	162.6
Stddev	28.	2.4	60.	1.1	3.6	2.5
%RSD	.2110	.4072	.6052	.3752	.5223	1.517

#1	13190.	576.4	9819.	281.0	677.0	159.8
#2	13240.	580.7	9920.	282.5	681.4	164.4
#3	13220.	580.3	9925.	283.0	684.0	163.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156248-b-2-s.ms Acquired: 5/31/2018 22:15:24 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	964.7	1116.	320.8	434.4	255.5	260.4
Stddev	6.7	3.	3.5	1.7	2.1	1.8
%RSD	.6974	.2428	1.090	.3816	.8369	.6930
#1	957.0	1114.	317.7	434.0	254.2	258.4
#2	967.7	1119.	320.1	433.1	258.0	261.8
#3	969.4	1115.	324.6	436.3	254.3	261.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	257.6	275.6	983.7	870.0
Stddev	2.0	1.5	5.9	49.9
%RSD	.7780	.5583	.5951	5.737
#1	255.5	275.1	978.3	907.1
#2	259.4	274.4	982.9	813.3
#3	258.0	277.3	989.9	889.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7189.0	44280.	9036.5
Stddev	4.1	238.	223.2
%RSD	.05677	.53687	2.4702
#1	7189.0	44006.	9143.5
#2	7184.9	44405.	8779.9
#3	7193.1	44429.	9186.0

Sample Name: 460-156248-a-2-z@4 Acquired: 5/31/2018 22:22:59 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23150.	8.187	-3834	82.13	.7595	10810.
Stddev	191.	.907	.1151	.60	.0785	14.
%RSD	.8247	11.07	30.02	.7329	10.33	.1301

#1	23360.	7.186	-.5100	82.39	.7455	10830.
#2	23100.	8.952	-.3551	82.57	.8440	10800.
#3	22980.	8.423	-.2851	81.45	.6889	10810.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1915	6.340	33.37	31.21	29470.	1216.
Stddev	.0263	.076	.33	.71	133.	16.
%RSD	13.72	1.203	.9957	2.272	.4507	1.279

#1	.1697	6.349	33.71	31.87	29610.	1215.
#2	.1840	6.411	33.36	31.30	29450.	1201.
#3	.2206	6.260	33.05	30.46	29350.	1232.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3869.	320.0	132.9	22.27	445.4	-1.223
Stddev	23.	1.7	5.9	.45	7.6	1.089
%RSD	.5917	.5414	4.434	2.008	1.707	89.06

#1	3895.	321.7	128.7	21.76	452.3	-.3116
#2	3858.	320.1	130.3	22.47	446.6	-2.430
#3	3854.	318.2	139.7	22.59	437.2	-.9284

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156248-a-2-z@4 Acquired: 5/31/2018 22:22:59 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.852	-1.015	82.56	179.3	13.51	2.287
Stddev	2.301	1.912	1.10	3.4	.19	.159
%RSD	806.9	188.3	1.327	1.901	1.401	6.972
#1	2.151	-4.893	83.64	180.6	13.60	2.465
#2	-2.423	-3.135	82.59	181.8	13.63	2.239
#3	-5.840	.5785	81.45	175.4	13.29	2.157

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	10.52	26.89	596.1	752.1
Stddev	.48	.25	5.6	15.1
%RSD	4.573	.9203	.9451	2.002
#1	10.48	27.14	602.0	769.1
#2	10.06	26.90	595.4	747.0
#3	11.02	26.64	590.8	740.3

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7249.1	45215.	9248.2
Stddev	91.4	449.	81.7
%RSD	1.2611	.99232	.88313
#1	7144.2	44728.	9211.4
#2	7311.5	45302.	9341.7
#3	7291.7	45613.	9191.3

Sample Name: 460-157010-a-30-f.ms Acquired: 5/31/2018 22:34:25 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67530.	899.5	18.94	1356.	29.71	16210.
Stddev	422.	3.2	.50	4.	.43	244.
%RSD	.6243	.3569	2.658	.2858	1.443	1.503
#1	67270.	901.3	18.76	1351.	29.81	16090.
#2	67310.	895.8	18.55	1359.	29.24	16050.
#3	68020.	901.4	19.51	1358.	30.08	16490.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.27	270.2	270.8	160.0	F 314100.	15110.
Stddev	.95	1.7	4.3	2.7	4458.	119.
%RSD	5.849	.6132	1.573	1.670	1.419	.7846
#1	16.60	268.3	267.8	158.6	311700.	15070.
#2	17.01	270.7	268.8	158.2	311300.	15020.
#3	15.19	271.6	275.6	163.0	319200.	15240.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19110.	760.0	9422.	372.8	344.3	94.07
Stddev	294.	10.8	58.	2.1	3.2	1.96
%RSD	1.539	1.416	.6180	.5545	.9341	2.082
#1	18980.	753.9	9378.	370.7	340.8	96.23
#2	18900.	753.6	9401.	372.9	347.2	92.42
#3	19450.	772.4	9488.	374.9	344.8	93.56

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-30-f.ms Acquired: 5/31/2018 22:34:25 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	884.7	1004.	356.6	697.1	222.9	233.5
Stddev	1.5	2.	5.2	1.4	2.0	2.3
%RSD	.1650	.2340	1.450	.1976	.8794	.9956
#1	883.6	1002.	354.2	696.0	222.0	231.3
#2	886.4	1004.	353.1	696.5	221.6	233.3
#3	884.2	1007.	362.6	698.6	225.2	236.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	234.8	336.5	919.2	1268.
Stddev	2.6	2.3	12.9	7.
%RSD	1.126	.6811	1.399	.5860
#1	233.2	335.1	911.5	1263.
#2	233.3	335.2	912.0	1276.
#3	237.9	339.1	934.0	1264.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7234.3	44717.	9303.1
Stddev	22.1	445.	31.8
%RSD	.30483	.99559	.34144
#1	7250.2	44853.	9279.5
#2	7243.6	45078.	9339.2
#3	7209.2	44220.	9290.5

Sample Name: 460-157010-a-30-d@4 Acquired: 5/31/2018 22:41:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43700.	8.002	-3.165	330.3	6.026	6814.
Stddev	181.	2.038	.111	.8	.096	25.
%RSD	.4145	25.47	3.520	.2366	1.600	.3612
#1	43840.	10.29	-3.256	330.5	6.061	6827.
#2	43500.	6.372	-3.197	329.5	6.100	6785.
#3	43780.	7.347	-3.040	331.1	5.917	6829.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.897	20.23	160.1	37.25	F 307600.	4947.
Stddev	.066	.12	1.0	.18	1343.	26.
%RSD	.8318	.5848	.6069	.4849	.4366	.5339
#1	-7.912	20.10	160.9	37.29	308500.	4964.
#2	-7.825	20.33	159.0	37.05	306000.	4959.
#3	-7.953	20.25	160.5	37.40	308200.	4916.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7855.	470.1	94.62	116.8	103.2	-9.144
Stddev	34.	2.6	10.64	1.1	.9	1.011
%RSD	.4348	.5632	11.25	.9003	.8675	11.06
#1	7872.	471.7	88.75	116.2	102.5	-10.08
#2	7816.	467.0	106.9	116.1	102.8	-9.276
#3	7878.	471.5	88.21	118.0	104.2	-8.074

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-30-d@4 Acquired: 5/31/2018 22:41:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -10.88	-2.412	114.8	406.0	42.25	7.026
Stddev	.67	1.186	.6	8.3	.76	.322
%RSD	6.112	49.18	.5046	2.036	1.807	4.584
#1	-11.52	-1.259	115.3	415.4	41.47	7.357
#2	-10.19	-2.347	114.2	400.0	43.00	6.714
#3	-10.94	-3.629	115.0	402.6	42.29	7.006
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	5000.					
Low Limit	-10.00					

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.930	96.26	695.0	1248.
Stddev	.617	.43	3.0	31.
%RSD	31.95	.4430	.4301	2.488
#1	1.740	96.69	697.8	1280.
#2	2.619	95.84	691.9	1218.
#3	1.431	96.26	695.2	1245.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7270.6	44866.	9280.6
Stddev	27.7	211.	30.0
%RSD	.38150	.46953	.32305
#1	7258.9	44663.	9278.7
#2	7302.3	45084.	9311.5
#3	7250.6	44852.	9251.7

Sample Name: sd 460-157010-a-30-d Acquired: 5/31/2018 22:45:43 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8692.	1.969	-6914	66.35	1.170	1384.
Stddev	44.	.682	.5205	.49	.043	7.
%RSD	.5032	34.63	75.28	.7367	3.660	.5294
#1	8736.	2.656	-.2438	66.75	1.157	1386.
#2	8690.	1.959	-.5679	66.50	1.218	1375.
#3	8649.	1.292	-1.263	65.81	1.136	1389.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.539	4.254	32.66	7.411	61660.	945.3
Stddev	.065	.172	.33	.356	119.	11.7
%RSD	4.196	4.031	.9971	4.800	.1925	1.233
#1	-1.588	4.224	32.35	7.474	61770.	955.4
#2	-1.466	4.438	33.00	7.732	61670.	932.5
#3	-1.562	4.099	32.62	7.028	61540.	948.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1649.	98.87	36.79	24.67	20.45	-2.647
Stddev	6.	.28	8.41	.74	1.19	1.247
%RSD	.3830	.2866	22.87	3.000	5.797	47.10
#1	1650.	98.79	45.21	23.84	21.28	-1.294
#2	1655.	99.18	28.38	24.93	19.09	-3.750
#3	1642.	98.63	36.78	25.25	20.97	-2.897

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-157010-a-30-d Acquired: 5/31/2018 22:45:43 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.214	.6328	23.17	86.51	9.137	1.291
Stddev	.596	.3584	.33	2.01	.736	.118
%RSD	26.91	56.65	1.419	2.327	8.050	9.104
#1	-2.693	.6997	23.04	84.62	8.735	1.379
#2	-2.402	.9531	22.93	86.28	8.689	1.158
#3	-1.547	.2456	23.55	88.63	9.986	1.338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3044	19.09	145.6	227.7
Stddev	.4310	.09	1.3	20.3
%RSD	141.6	.4761	.8687	8.917
#1	.1426	19.20	144.3	215.7
#2	.7928	19.07	146.8	251.2
#3	-.0223	19.02	145.8	216.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7338.1	44982.	9195.8
Stddev	7.8	430.	59.2
%RSD	.10604	.95548	.64386
#1	7329.4	44487.	9185.3
#2	7344.3	45197.	9259.6
#3	7340.6	45263.	9142.5

Sample Name: CCVL Acquired: 5/31/2018 22:57:22 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	175.8	14.32	7.937	187.2	1.744	4328.
Stddev	4.0	1.17	.328	1.4	.048	41.
%RSD	2.275	8.153	4.135	.7586	2.750	.9525

#1	178.0	13.41	7.932	186.1	1.781	4368.
#2	178.3	15.64	7.612	186.7	1.761	4286.
#3	171.2	13.91	8.268	188.8	1.690	4331.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.751	46.73	10.25	22.21	154.4	4084.
Stddev	.121	.40	.15	.08	5.0	17.
%RSD	3.230	.8494	1.452	.3460	3.245	.4086

#1	3.756	46.69	10.43	22.20	154.8	4070.
#2	3.628	46.35	10.17	22.13	159.2	4080.
#3	3.870	47.14	10.17	22.29	149.2	4103.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4383.	14.91	4139.	39.45	9.044	18.32
Stddev	36.	.23	33.	.50	.792	1.10
%RSD	.8124	1.542	.8002	1.259	8.759	6.018

#1	4383.	14.67	4142.	39.06	9.815	17.75
#2	4348.	14.94	4104.	39.30	8.232	17.61
#3	4419.	15.13	4170.	40.01	9.086	19.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 22:57:22 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.82	23.90	45.58	30.63	45.26	18.84
Stddev	2.16	1.82	.79	.70	1.62	.69
%RSD	12.83	7.600	1.729	2.293	3.575	3.651
#1	15.85	22.59	45.02	29.81	43.40	18.05
#2	19.29	23.13	45.23	31.03	46.03	19.15
#3	15.31	25.97	46.48	31.04	46.34	19.32

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	47.54	17.64	19.72	F -.4008
Stddev	.73	.12	.43	15.15
%RSD	1.541	.6787	2.204	3780.
#1	46.91	17.70	19.36	-12.33
#2	47.36	17.51	19.60	-5.518
#3	48.34	17.72	20.20	16.65

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7216.4	44511.	9195.8
Stddev	35.5	231.	34.1
%RSD	.49253	.51914	.37096
#1	7244.8	44318.	9195.8
#2	7227.7	44767.	9229.9
#3	7176.5	44448.	9161.7

Sample Name: CCB Acquired: 5/31/2018 22:53:21 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.041	.4280	.1089	.2463	.0088	14.84
Stddev	8.080	.6493	.4556	.1641	.0689	4.71
%RSD	133.7	151.7	418.5	66.61	779.7	31.75
#1	-2.009	-.3020	.2784	.4018	.0713	17.53
#2	-15.34	.6455	-.4072	.2624	.0204	9.397
#3	-.7710	.9406	.4554	.0748	-.0651	17.58

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0046	.0938	.2186	.4937	13.32	-29.54
Stddev	.1173	.1489	.4250	.0806	11.03	19.14
%RSD	2552.	158.8	194.4	16.32	82.81	64.82
#1	-.0694	.1720	.6768	.4417	26.05	-12.74
#2	.1399	.1873	.1417	.4530	6.802	-25.49
#3	-.0567	-.0779	-.1626	.5865	7.097	-50.38

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5441	.1389	23.40	.4679	.1195	.1614
Stddev	7.937	.1516	13.22	.1543	.4280	1.309
%RSD	1459.	109.2	56.50	32.98	358.2	811.1
#1	8.341	.3075	36.95	.2921	-.0667	1.414
#2	-3.041	.0137	22.71	.5304	-.1839	-1.198
#3	-6.932	.0953	10.54	.5811	.6090	.2682

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 22:53:21 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5006	1.210	.0438	-.5739	2.267	.9917
Stddev	2.712	1.627	.1178	.1282	.342	.5183
%RSD	541.8	134.5	269.1	22.34	15.07	52.26
#1	-.9238	3.063	.1788	-.4706	2.661	1.493
#2	-1.203	.0150	-.0379	-.7173	2.047	.4584
#3	3.628	.5506	-.0096	-.5337	2.094	1.023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2557	.2477	2.445	13.38
Stddev	.2865	.2509	1.320	12.62
%RSD	112.1	101.3	53.99	94.37
#1	.0321	.5345	3.907	15.49
#2	-.2582	.1400	2.088	-.1711
#3	-.5409	.0686	1.340	24.81

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7206.2	44745.	9227.7
Stddev	70.7	787.	81.4
%RSD	.98172	1.7580	.88218
#1	7239.5	45647.	9247.6
#2	7254.1	44383.	9138.2
#3	7124.9	44204.	9297.3

Sample Name: 460-156248-c-1-b@4 Acquired: 5/31/2018 23:01:19 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40980.	18.77	-5606	385.7	2.445	49180.
Stddev	374.	.88	.3941	4.0	.024	286.
%RSD	.9132	4.683	70.30	1.026	.9839	.5817
#1	41160.	19.54	-.5799	386.8	2.421	49100.
#2	40550.	18.94	-.9446	389.0	2.445	49500.
#3	41220.	17.81	-.1572	381.4	2.469	48950.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6315	35.93	87.80	123.2	81530.	4253.
Stddev	.1583	.50	1.39	.9	462.	25.
%RSD	25.07	1.403	1.587	.7073	.5672	.5876
#1	-.4532	36.02	88.20	124.1	81670.	4264.
#2	-.6859	36.38	88.94	123.2	81900.	4225.
#3	-.7555	35.39	86.25	122.3	81010.	4271.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16190.	4240.	2528.	79.57	300.1	-6.900
Stddev	88.	26.	16.	.65	1.9	1.743
%RSD	.5449	.6153	.6202	.8188	.6361	25.26
#1	16210.	4251.	2539.	79.73	301.3	-8.283
#2	16270.	4259.	2510.	80.13	301.1	-4.943
#3	16090.	4210.	2535.	78.86	297.9	-7.473

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156248-c-1-b@4 Acquired: 5/31/2018 23:01:19 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.572	.0093	134.4	326.7	18.99	2.603
Stddev	1.375	2.442	.9	5.1	.89	.258
%RSD	30.07	26290.	.6963	1.575	4.673	9.894
#1	-5.871	1.764	134.9	332.4	20.01	2.805
#2	-4.714	-2.779	134.9	325.2	18.53	2.313
#3	-3.132	1.043	133.3	322.4	18.42	2.691

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	25.36	150.7	1693.	1296.
Stddev	.58	1.6	11.	40.
%RSD	2.298	1.037	.6657	3.115
#1	26.03	151.8	1700.	1340.
#2	25.12	148.9	1700.	1288.
#3	24.94	151.3	1680.	1260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7203.6	45077.	9382.0
Stddev	49.8	364.	96.0
%RSD	.69106	.80840	1.0228
#1	7170.5	44680.	9365.5
#2	7179.3	45155.	9485.1
#3	7260.8	45396.	9295.3

Sample Name: 460-156383-e-4-f@4 Acquired: 5/31/2018 23:08:58 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40580.	8.384	-1.063	193.2	2.414	41140.
Stddev	144.	1.731	.241	.5	.029	207.
%RSD	.3557	20.64	22.71	.2716	1.219	.5031

#1	40680.	10.33	-.9523	193.4	2.424	40930.
#2	40410.	7.814	-1.340	193.6	2.381	41350.
#3	40640.	7.011	-.8975	192.6	2.438	41140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.228	40.36	72.53	97.85	95110.	3643.
Stddev	.092	.34	.13	.54	231.	28.
%RSD	7.530	.8518	.1752	.5489	.2430	.7801

#1	-1.333	40.42	72.68	98.37	94900.	3657.
#2	-1.159	40.66	72.44	97.30	95360.	3610.
#3	-1.192	39.98	72.49	97.87	95060.	3661.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15040.	1514.	1302.	73.67	28.68	-6.140
Stddev	15.	4.	9.	.47	.74	1.181
%RSD	.0984	.2582	.6875	.6385	2.579	19.23

#1	15050.	1512.	1310.	73.30	27.84	-6.281
#2	15030.	1519.	1292.	73.52	29.25	-7.245
#3	15030.	1513.	1303.	74.20	28.94	-4.896

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156383-e-4-f@4 Acquired: 5/31/2018 23:08:58 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.552	-1.453	201.1	210.9	23.03	1.349
Stddev	2.377	.787	.1	4.3	.55	.040
%RSD	66.92	54.15	.0335	2.020	2.370	2.931
#1	-0.8425	-2.253	201.1	206.0	22.74	1.308
#2	-5.286	-6.803	201.2	213.2	22.69	1.350
#3	-4.527	-1.425	201.2	213.6	23.66	1.387

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.281	135.7	2238.	459.6
Stddev	.328	1.2	6.	5.3
%RSD	9.989	.8515	.2485	1.150
#1	3.336	136.7	2240.	454.2
#2	2.929	134.4	2242.	459.6
#3	3.578	136.1	2232.	464.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7250.1	45216.	9380.3
Stddev	2.5	232.	45.9
%RSD	.03502	.51217	.48980
#1	7248.2	44958.	9425.5
#2	7253.0	45405.	9381.8
#3	7249.2	45286.	9333.7

Sample Name: 460-156248-a-2-aa du Acquired: 5/31/2018 22:19:06 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24340.	9.431	-3586	86.66	.7206	12160.
Stddev	82.	1.643	.1334	.37	.0558	36.
%RSD	.3349	17.42	37.20	.4280	7.739	.2976

#1	24380.	10.10	-.3773	86.88	.7814	12200.
#2	24250.	10.64	-.2168	86.87	.6718	12160.
#3	24400.	7.560	-.4817	86.23	.7087	12120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2179	6.655	35.61	34.83	31620.	1276.
Stddev	.1343	.177	.41	.14	104.	31.
%RSD	61.64	2.659	1.156	.4022	.3289	2.401

#1	.0771	6.582	35.87	34.77	31720.	1286.
#2	.2320	6.525	35.82	34.73	31620.	1242.
#3	.3447	6.856	35.13	34.99	31510.	1300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4088.	326.6	129.7	21.44	458.0	-1.201
Stddev	23.	.6	14.5	.33	4.8	.381
%RSD	.5528	.1727	11.22	1.546	1.042	31.70

#1	4073.	327.1	131.5	21.20	452.8	-1.462
#2	4114.	326.5	143.3	21.30	459.1	-.7641
#3	4077.	326.0	114.3	21.82	462.2	-1.378

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156248-a-2-aa du Acquired: 5/31/2018 22:19:06 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4479	-.6501	71.67	195.5	15.87	2.705
Stddev	2.206	1.296	.34	4.7	1.25	.129
%RSD	492.4	199.4	.4698	2.381	7.904	4.775
#1	1.905	-.3430	71.28	191.3	14.48	2.571
#2	-2.090	.4650	71.87	194.7	16.22	2.714
#3	1.529	-2.072	71.85	200.5	16.92	2.829

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.625	30.73	609.1	749.5
Stddev	.196	.12	.6	8.5
%RSD	3.475	.3748	.1052	1.140
#1	5.573	30.74	609.4	741.6
#2	5.461	30.61	608.4	748.3
#3	5.842	30.84	609.6	758.6

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7207.4	45158.	9278.5
Stddev	5.5	254.	107.5
%RSD	.07674	.56140	1.1583
#1	7212.9	44912.	9155.1
#2	7201.9	45142.	9351.0
#3	7207.5	45419.	9329.5

Sample Name: sd 460-156248-a-2-z Acquired: 5/31/2018 22:26:52 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4704.	.6169	-.2330	17.01	.1215	2285.
Stddev	11.	1.605	.4934	.26	.0174	9.
%RSD	.2251	260.1	211.7	1.524	14.34	.3817
#1	4713.	2.370	.1866	17.31	.1367	2276.
#2	4692.	.2600	-.7766	16.92	.1255	2286.
#3	4708.	-.7791	-.1091	16.82	.1025	2293.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0746	1.308	6.787	6.203	6356.	227.4
Stddev	.1928	.183	.176	.325	40.	29.8
%RSD	258.5	14.02	2.587	5.239	.6319	13.09
#1	-.1004	1.155	6.744	6.338	6315.	261.6
#2	.0429	1.511	6.980	6.439	6395.	207.8
#3	.2814	1.257	6.637	5.833	6358.	212.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	814.3	69.42	48.81	4.983	92.60	-.6776
Stddev	11.8	1.02	2.76	.132	2.56	.1988
%RSD	1.449	1.467	5.663	2.638	2.767	29.34
#1	801.0	68.25	50.14	4.909	91.26	-.9025
#2	823.5	69.94	45.63	5.135	95.56	-.5252
#3	818.5	70.07	50.66	4.906	90.99	-.6050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-156248-a-2-z Acquired: 5/31/2018 22:26:52 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3213	.6882	16.95	37.94	5.055	.3935
Stddev	1.346	.8260	.17	1.16	.820	.2290
%RSD	418.9	120.0	1.029	3.044	16.22	58.20
#1	-1.221	-1.154	16.83	36.98	4.487	.2883
#2	.9263	.6450	17.15	39.22	5.995	.2360
#3	1.259	1.535	16.87	37.62	4.683	.6563

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.549	5.526	129.1	160.1
Stddev	.154	.108	1.8	12.4
%RSD	6.025	1.950	1.396	7.714
#1	2.441	5.638	127.0	152.2
#2	2.725	5.519	130.4	174.3
#3	2.482	5.423	129.7	153.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7102.1	43782.	8892.4
Stddev	30.5	68.	2.2
%RSD	.42960	.15419	.02510
#1	7076.9	43848.	8890.0
#2	7093.5	43713.	8892.8
#3	7136.0	43785.	8894.4

Sample Name: 460-156383-e-5-h@4 Acquired: 5/31/2018 23:12:49 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36300.	24.76	-1.042	424.9	2.264	32920.
Stddev	3563.	.14	.392	5.4	.123	349.
%RSD	9.815	.5576	37.60	1.260	5.451	1.060
#1	32190.	24.81	-.7934	428.6	2.130	32550.
#2	38440.	24.86	-1.493	427.3	2.372	33250.
#3	38280.	24.60	-.8389	418.7	2.290	32960.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9575	40.99	120.1	115.2	100200.	3310.
Stddev	.2485	.57	1.2	1.3	857.	373.
%RSD	25.95	1.385	.9669	1.121	.8552	11.26
#1	-.7129	41.51	119.6	114.9	99490.	2880.
#2	-.9498	41.06	121.4	116.6	101200.	3510.
#3	-1.210	40.39	119.3	114.1	100100.	3540.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15690.	1817.	1815.	68.66	52.07	-6.817
Stddev	124.	16.	203.	.73	.70	1.061
%RSD	.7901	.8993	11.18	1.061	1.351	15.56
#1	15570.	1800.	1581.	69.32	52.75	-5.963
#2	15820.	1833.	1933.	68.78	51.35	-8.004
#3	15670.	1818.	1932.	67.88	52.12	-6.483

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-156383-e-5-h@4 Acquired: 5/31/2018 23:12:49 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.311	-1.542	268.4	190.8	34.66	4.063
Stddev	1.667	1.583	2.2	3.9	1.40	.398
%RSD	127.1	102.7	.8171	2.023	4.048	9.800
#1	2.891	.0692	267.0	192.4	34.79	4.380
#2	-.4304	-3.096	270.9	193.7	36.00	4.192
#3	1.472	-1.599	267.3	186.4	33.20	3.616

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.676	112.5	2272.	631.2
Stddev	.189	10.8	20.	46.3
%RSD	5.148	9.578	.8737	7.330
#1	3.462	100.1	2253.	577.8
#2	3.743	118.8	2292.	658.9
#3	3.822	118.7	2270.	657.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6982.9	43833.	9348.9
Stddev	73.0	345.	219.0
%RSD	1.0451	.78634	2.3425
#1	6918.9	43436.	9601.7
#2	6967.5	44015.	9216.6
#3	7062.4	44049.	9228.5

Sample Name: 460-156383-e-10-f@4 Acquired: 5/31/2018 23:28:12 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42570.	9.911	-1.243	239.7	2.652	14110.
Stddev	486.	1.221	.178	5.7	.038	149.
%RSD	1.142	12.32	14.29	2.392	1.431	1.059
#1	42320.	8.694	-1.039	236.4	2.613	14030.
#2	42270.	11.14	-1.329	246.3	2.654	14020.
#3	43130.	9.903	-1.362	236.4	2.689	14280.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.499	44.59	113.1	101.1	112000.	3047.
Stddev	.774	1.36	.3	.7	1149.	62.
%RSD	51.66	3.042	.2859	.7015	1.026	2.044
#1	-1.617	44.25	112.9	101.3	111500.	3009.
#2	-.6719	46.08	112.9	100.3	111200.	3013.
#3	-2.207	43.43	113.5	101.6	113300.	3119.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16780.	1534.	1263.	94.04	35.50	-6.545
Stddev	214.	18.	23.	2.16	1.49	.989
%RSD	1.273	1.150	1.849	2.294	4.192	15.11
#1	16650.	1527.	1242.	92.84	33.83	-5.403
#2	16670.	1521.	1260.	96.53	36.70	-7.141
#3	17030.	1554.	1288.	92.75	35.96	-7.090

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-156383-e-10-f@4 Acquired: 5/31/2018 23:28:12 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.493	-3.752	232.1	229.7	22.61	1.823
Stddev	.606	1.267	1.5	7.0	1.75	.313
%RSD	13.48	33.76	.6267	3.026	7.732	17.16
#1	-4.336	-3.147	231.6	221.8	20.63	1.464
#2	-3.981	-2.902	231.1	234.7	23.25	1.965
#3	-5.162	-5.208	233.8	232.8	23.94	2.040

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.556	46.48	2372.	531.2
Stddev	.778	.63	26.	22.3
%RSD	30.44	1.362	1.080	4.206
#1	1.673	46.12	2362.	505.5
#2	3.141	46.12	2354.	546.1
#3	2.855	47.21	2402.	541.9

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7093.2	44961.	9386.8
Stddev	104.7	675.	58.5
%RSD	1.4755	1.5019	.62365
#1	7206.1	45114.	9392.7
#2	6999.5	45546.	9442.1
#3	7074.1	44222.	9325.5

Sample Name: CCVL Acquired: 5/31/2018 23:47:28 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	179.5	13.11	8.310	186.6	1.725	4349.
Stddev	.5	.85	.136	.9	.040	16.
%RSD	.2951	6.480	1.633	.4638	2.289	.3758

#1	179.3	13.91	8.463	187.2	1.696	4351.
#2	179.1	13.19	8.205	187.0	1.708	4332.
#3	180.1	12.22	8.261	185.6	1.770	4365.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.840	46.84	10.45	22.24	154.0	4116.
Stddev	.152	.27	.27	.46	6.4	36.
%RSD	3.959	.5662	2.588	2.057	4.132	.8772

#1	3.984	47.14	10.14	21.74	146.9	4076.
#2	3.856	46.72	10.63	22.36	156.2	4144.
#3	3.681	46.65	10.58	22.63	159.0	4129.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4359.	14.80	4165.	39.38	9.538	18.43
Stddev	49.	.35	17.	.75	1.241	.76
%RSD	1.116	2.396	.3998	1.906	13.01	4.128

#1	4313.	14.54	4146.	39.41	8.533	17.58
#2	4354.	14.66	4178.	40.11	10.92	19.04
#3	4410.	15.20	4171.	38.61	9.156	18.68

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 5/31/2018 23:47:28 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.84	23.14	45.00	29.87	44.52	18.52
Stddev	1.40	1.67	1.10	.78	2.58	.87
%RSD	8.842	7.216	2.434	2.623	5.793	4.696
#1	15.56	21.21	44.24	29.44	43.14	17.95
#2	17.35	24.07	44.50	29.40	42.92	18.09
#3	14.60	24.14	46.25	30.78	47.50	19.52

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	47.05	17.63	19.92	F .9301
Stddev	1.64	.30	.21	18.60
%RSD	3.483	1.706	1.054	2000.
#1	46.09	17.30	19.72	-20.55
#2	46.11	17.89	19.89	12.09
#3	48.94	17.71	20.14	11.25

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7153.1	44258.	9165.3
Stddev	51.3	361.	36.6
%RSD	.71687	.81543	.39909
#1	7190.5	44485.	9134.4
#2	7174.2	44447.	9205.7
#3	7094.7	43842.	9155.9

Sample Name: pds 460-157010-a-30- Acquired: 5/31/2018 22:30:48 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47370.	1947.	45.38	2455.	56.02	27110.
Stddev	746.	8.	.25	6.	.87	212.
%RSD	1.574	.4191	.5410	.2286	1.560	.7809
#1	47720.	1949.	45.34	2461.	56.71	26910.
#2	46520.	1954.	45.64	2455.	55.04	27340.
#3	47890.	1938.	45.15	2450.	56.32	27090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.04	546.0	381.0	298.4	F 322300.	24140.
Stddev	.36	.2	4.1	3.3	2295.	379.
%RSD	.8479	.0386	1.071	1.096	.7120	1.570
#1	43.40	546.2	376.9	298.5	321000.	24280.
#2	42.67	545.8	385.0	301.6	325000.	23710.
#3	43.03	545.9	380.9	295.1	321000.	24430.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27290.	1026.	19920.	636.4	617.9	479.4
Stddev	171.	8.	329.	.4	2.9	.7
%RSD	.6279	.7391	1.653	.0694	.4765	.1559
#1	27190.	1022.	20060.	636.2	616.1	480.0
#2	27490.	1035.	19540.	636.1	621.3	478.6
#3	27200.	1021.	20160.	636.9	616.2	479.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-157010-a-30- Acquired: 5/31/2018 22:30:48 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1932.	2127.	639.1	939.0	525.6	519.7
Stddev	9.	11.	7.3	3.7	2.6	2.7
%RSD	.4617	.5068	1.149	.3975	.4869	.5241
#1	1938.	2124.	633.7	934.7	526.3	519.6
#2	1937.	2140.	647.5	941.5	527.7	522.4
#3	1922.	2119.	636.3	940.8	522.7	517.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	511.4	594.7	1258.	1288.
Stddev	1.8	9.9	12.	6.
%RSD	.3485	1.662	.9320	.4286
#1	511.8	600.3	1257.	1290.
#2	513.0	583.3	1271.	1282.
#3	509.5	600.5	1247.	1292.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6995.1	42736.	9045.2
Stddev	18.8	141.	122.6
%RSD	.26837	.33001	1.3552
#1	6977.2	42753.	9009.7
#2	7014.7	42587.	9181.6
#3	6993.3	42868.	8944.2

Sample Name: 460-156904-g-1-d@4 Acquired: 5/31/2018 23:51:25 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19910.	6.887	-6.6467	209.5	1.618	60410.
Stddev	202.	.684	.3236	1.5	.058	760.
%RSD	1.015	9.935	50.03	.7359	3.575	1.259
#1	19720.	6.472	-.4925	208.2	1.685	59770.
#2	19890.	7.677	-1.019	211.2	1.589	60190.
#3	20120.	6.512	-.4291	209.0	1.581	61250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7175	23.34	89.81	46.67	55500.	3182.
Stddev	.1756	.16	.92	.40	633.	30.
%RSD	24.48	.7007	1.024	.8659	1.140	.9390
#1	-.5804	23.31	88.84	46.61	54890.	3166.
#2	-.6566	23.52	89.92	46.30	55460.	3217.
#3	-.9155	23.20	90.67	47.10	56150.	3164.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23120.	1886.	1018.	45.47	16.12	-5.360
Stddev	265.	20.	2.	.64	1.73	.653
%RSD	1.145	1.080	.1974	1.416	10.76	12.18
#1	22870.	1866.	1019.	44.73	17.05	-6.102
#2	23100.	1883.	1020.	45.88	17.18	-5.103
#3	23390.	1907.	1016.	45.80	14.11	-4.874

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156904-g-1-d@4 Acquired: 5/31/2018 23:51:25 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.351	-1.285	98.70	108.8	14.46	1.497
Stddev	.573	4.179	.82	.6	.17	.081
%RSD	17.09	325.2	.8337	.5868	1.192	5.376
#1	-2.902	-.0890	98.64	108.0	14.27	1.479
#2	-3.155	2.166	97.91	109.0	14.50	1.585
#3	-3.996	-5.932	99.55	109.2	14.60	1.427

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.569	83.51	1472.	839.5
Stddev	.381	.42	14.	2.9
%RSD	14.84	.4989	.9383	.3452
#1	2.893	83.04	1458.	840.0
#2	2.149	83.66	1472.	842.1
#3	2.664	83.84	1485.	836.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7034.6	44101.	9272.8
Stddev	46.6	145.	80.6
%RSD	.66196	.32826	.86925
#1	7018.5	44122.	9345.5
#2	6998.3	44234.	9286.9
#3	7087.1	43947.	9186.1

Sample Name: 460-157010-a-30-e du Acquired: 5/31/2018 22:38:06 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47420.	7.583	-2.912	326.9	5.684	6601.
Stddev	265.	1.907	.234	2.8	.024	41.
%RSD	.5595	25.15	8.026	.8650	.4255	.6145
#1	47680.	9.416	-2.693	329.6	5.657	6647.
#2	47430.	7.724	-2.887	327.1	5.691	6573.
#3	47150.	5.610	-3.158	323.9	5.704	6582.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.681	19.63	151.3	35.39	F 266500.	5319.
Stddev	.258	.15	1.1	.69	2443.	30.
%RSD	3.864	.7493	.6954	1.956	.9164	.5553
#1	-6.410	19.47	152.5	36.03	269100.	5296.
#2	-6.711	19.76	151.0	35.49	266300.	5309.
#3	-6.923	19.67	150.4	34.65	264200.	5352.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8256.	418.6	113.6	113.6	93.55	-8.048
Stddev	72.	3.5	3.6	1.7	1.35	.343
%RSD	.8732	.8311	3.205	1.497	1.441	4.261
#1	8288.	422.4	111.3	115.1	94.79	-7.897
#2	8306.	418.0	111.7	113.9	93.73	-8.440
#3	8173.	415.5	117.8	111.7	92.11	-7.806

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-30-e du Acquired: 5/31/2018 22:38:06 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.274	-2.482	112.4	397.7	40.34	6.383
Stddev	2.942	4.120	1.5	11.7	1.57	.539
%RSD	35.56	166.0	1.332	2.938	3.883	8.440
#1	-6.297	2.173	113.3	410.0	40.47	6.542
#2	-6.869	-3.960	113.3	386.8	41.84	6.824
#3	-11.65	-5.660	110.7	396.2	38.71	5.782

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.010	94.53	693.4	1169.
Stddev	.316	.81	7.8	15.
%RSD	15.73	.8593	1.122	1.288
#1	1.943	95.41	701.9	1169.
#2	1.732	94.37	691.7	1184.
#3	2.354	93.81	686.6	1153.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7347.4	45005.	9257.6
Stddev	56.4	733.	19.8
%RSD	.76709	1.6276	.21429
#1	7288.8	44174.	9236.7
#2	7352.3	45283.	9259.9
#3	7401.2	45558.	9276.2

Sample Name: 460-157010-a-29-b@4 Acquired: 5/31/2018 23:59:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7300.	10.38	-.1247	69.21	.5067	757.3
Stddev	12e3	13.48	.0915	119.9	.8973	1023.
%RSD	170.3	129.8	73.37	173.2	177.1	135.0

#1	21660.	25.94	-.2207	207.6	1.542	1938.
#2	249.0	2.979	-.1147	.0129	.0163	174.8
#3	-6.48	2.231	-.0386	-.0310	-.0385	159.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0428	7.289	20.17	15.76	20780.	702.3
Stddev	.0921	12.94	35.06	34.64	35930.	1246.
%RSD	215.2	177.6	173.8	219.9	173.0	177.4

#1	-.0631	22.23	60.66	55.76	62270.	2141.
#2	.1038	-.1518	.0620	-4.411	55.02	-.103
#3	.0876	-.2150	-.2055	-4.077	4.34	-34.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1962.	173.6	27.02	21.79	43.92	-.8616
Stddev	3386.	300.2	60.19	37.50	74.97	1.095
%RSD	172.6	172.9	222.8	172.1	170.7	127.0

#1	5871.	520.2	96.42	65.09	130.5	-1.854
#2	11.13	.5697	-11.00	.0963	1.009	-1.043
#3	2.681	.0852	-4.358	.1823	.2647	.3125

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-a-29-b@4 Acquired: 5/31/2018 23:59:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.373	2.293	27.81	189.7	-8.907	.1880
Stddev	.962	2.902	48.65	329.8	17.75	.7310
%RSD	22.00	126.6	174.9	173.8	199.3	388.8
#1	-4.025	-1.057	83.99	570.5	11.59	1.028
#2	-5.461	4.050	-.2169	-.4166	-19.06	-.1641
#3	-3.634	3.885	-.3286	-.9797	-19.25	-.3003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7388	6.546	149.3	F -280.8
Stddev	1.778	11.25	258.3	359.3
%RSD	240.6	171.9	173.1	127.9
#1	2.790	19.54	447.6	134.0
#2	-.2306	.1412	.2872	-482.4
#3	-.3433	-.0441	-.0574	-494.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20000.
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	17645.	101520.	17067.
Stddev	6473.	30186.	2769.
%RSD	36.684	29.733	16.223
#1	10173.	66705.	14050.
#2	21546.	120360.	17657.
#3	21214.	117500.	19493.

Sample Name: 460-157010-b-31-b@4 Acquired: 6/1/2018 0:03:05 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	65610.	46.07	-3.088	433.8	19.35	9516.
Stddev	228.	1.03	.363	.5	.13	34.
%RSD	.3475	2.227	11.75	.1047	.6617	.3542

#1	65860.	44.89	-3.026	433.5	19.50	9555.
#2	65410.	46.69	-3.477	433.7	19.27	9501.
#3	65570.	46.63	-2.760	434.4	19.30	9493.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.913	36.71	143.4	33.04	F 274800.	6129.
Stddev	.269	.13	.2	.37	428.	16.
%RSD	5.466	.3665	.1512	1.124	.1558	.2582

#1	-4.848	36.67	143.5	33.05	275200.	6117.
#2	-5.208	36.86	143.6	32.67	274700.	6147.
#3	-4.683	36.60	143.2	33.41	274400.	6124.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11480.	895.1	433.6	123.6	141.1	-9.163
Stddev	41.	1.3	5.5	.5	2.2	.891
%RSD	.3552	.1475	1.271	.3993	1.566	9.721

#1	11510.	896.6	438.5	124.1	139.0	-8.392
#2	11480.	894.2	427.6	123.4	140.9	-10.14
#3	11430.	894.4	434.8	123.1	143.4	-8.959

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157010-b-31-b@4 Acquired: 6/1/2018 0:03:05 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -11.55	-5.982	104.5	361.0	46.71	6.218
Stddev	2.16	.830	.2	5.8	1.50	.479
%RSD	18.72	13.87	.1677	1.620	3.205	7.702
#1	-12.04	-6.529	104.6	358.3	45.64	6.397
#2	-9.190	-5.027	104.6	356.9	46.08	5.675
#3	-13.43	-6.389	104.3	367.7	48.42	6.581
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	5000.					
Low Limit	-10.00					

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.537	147.9	546.5	1156.
Stddev	.652	.8	.8	12.
%RSD	42.43	.5274	.1545	1.010
#1	.8590	148.7	545.6	1162.
#2	1.591	147.2	546.6	1142.
#3	2.160	147.7	547.3	1163.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7294.1	45212.	9272.6
Stddev	11.7	275.	77.5
%RSD	.16077	.60784	.83555
#1	7280.9	44897.	9192.3
#2	7303.3	45338.	9278.6
#3	7298.1	45402.	9346.9

Sample Name: 460-156383-e-3-h@4 Acquired: 5/31/2018 23:05:08 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45210.	7.864	-1.352	207.1	2.913	23620.
Stddev	403.	.982	.185	1.0	.020	281.
%RSD	.8908	12.48	13.65	.4928	.6853	1.190
#1	45640.	7.468	-1.177	208.3	2.890	23940.
#2	44850.	8.981	-1.334	206.3	2.927	23460.
#3	45130.	7.141	-1.545	206.8	2.922	23450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.787	48.17	100.7	117.4	122500.	4253.
Stddev	.384	.10	1.4	1.8	1341.	45.
%RSD	21.47	.2111	1.367	1.563	1.095	1.052
#1	-2.172	48.26	102.3	119.5	124100.	4286.
#2	-1.785	48.20	99.80	116.1	121800.	4202.
#3	-1.405	48.06	100.0	116.6	121700.	4272.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19810.	2020.	1315.	86.39	35.12	-8.993
Stddev	239.	24.	13.	.32	1.03	2.855
%RSD	1.208	1.179	.9569	.3754	2.941	31.74
#1	20090.	2048.	1327.	86.54	36.14	-7.711
#2	19690.	2007.	1302.	86.02	34.07	-7.004
#3	19660.	2006.	1315.	86.61	35.15	-12.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156383-e-3-h@4 Acquired: 5/31/2018 23:05:08 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.423	-1.473	260.9	230.5	29.46	2.608
Stddev	4.164	.578	3.0	2.0	.54	.095
%RSD	64.84	39.22	1.154	.8576	1.826	3.648
#1	-2.977	-1.784	264.3	229.9	29.85	2.520
#2	-11.05	-.8064	260.1	228.8	28.85	2.596
#3	-5.241	-1.829	258.4	232.7	29.70	2.709

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.444	83.07	3290.	522.7
Stddev	.040	.85	33.	7.2
%RSD	.9089	1.017	1.002	1.373
#1	4.430	83.97	3327.	515.3
#2	4.489	82.29	3267.	529.6
#3	4.412	82.95	3274.	523.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7218.4	45271.	9557.5
Stddev	43.0	536.	129.7
%RSD	.59531	1.1838	1.3567
#1	7170.3	44672.	9409.6
#2	7253.1	45436.	9611.0
#3	7231.9	45705.	9651.8

Sample Name: CCV Acquired: 5/31/2018 22:49:39 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121800.	2470.	1199.	10130.	979.4	121700.
Stddev	2408.	20.	8.	62.	20.1	1583.
%RSD	1.977	.8262	.7034	.6095	2.049	1.301

#1	119100.	2456.	1193.	10060.	957.4	120700.
#2	122800.	2493.	1195.	10170.	983.8	120900.
#3	123500.	2459.	1209.	10160.	996.8	123500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1258.	2512.	4953.	12120.	98000.	48210.
Stddev	6.	15.	45.	55.	961.	925.
%RSD	.4695	.6015	.9090	.4526	.9807	1.918

#1	1252.	2495.	4918.	12100.	97360.	47170.
#2	1263.	2525.	4936.	12090.	97540.	48500.
#3	1259.	2514.	5004.	12190.	99110.	48950.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121000.	5099.	123600.	2548.	7496.	977.0
Stddev	1176.	42.	2451.	17.	38.	5.4
%RSD	.9718	.8305	1.983	.6635	.5035	.5500

#1	120200.	5070.	120800.	2530.	7452.	972.7
#2	120600.	5078.	124500.	2564.	7520.	983.0
#3	122400.	5147.	125500.	2549.	7515.	975.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 22:49:39 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2453.	2514.	2447.	2554.	970.4	2446.
Stddev	22.	25.	20.	17.	4.9	16.
%RSD	.8864	1.002	.8035	.6622	.5032	.6705

#1	2446.	2485.	2435.	2534.	967.6	2430.
#2	2477.	2532.	2437.	2561.	976.0	2463.
#3	2435.	2526.	2470.	2566.	967.5	2446.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1000.	4922.	9775.	9479.
Stddev	5.	86.	57.	128.
%RSD	.4958	1.748	.5814	1.348

#1	994.8	4823.	9710.	9395.
#2	1005.	4975.	9809.	9626.
#3	1001.	4968.	9807.	9416.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6708.6	41712.	8861.5
Stddev	34.8	143.	175.3
%RSD	.51940	.34400	1.9781

#1	6717.2	41851.	9031.4
#2	6670.3	41721.	8871.8
#3	6738.4	41565.	8681.2

Sample Name: sd 460-156908-a-1-j Acquired: 6/1/2018 0:22:42 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.930	2.266	.0551	15.05	.0295	2408.
Stddev	5.662	1.280	.1911	.14	.0320	20.
%RSD	144.1	56.49	346.5	.9454	108.4	.8285

#1	-.2804	3.044	-.1176	15.13	.0487	2430.
#2	-1.056	2.964	.2604	15.13	.0472	2403.
#3	-10.45	.7886	.0226	14.88	-.0074	2391.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0846	.2574	.0232	2.757	4.413	61.34
Stddev	.0303	.1252	.2827	.110	11.78	13.04
%RSD	35.80	48.62	1216.	3.996	267.0	21.27

#1	.0958	.1298	-.2355	2.745	14.89	75.68
#2	.0503	.3800	.3251	2.873	6.690	58.16
#3	.1076	.2624	-.0199	2.653	-8.340	50.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	175.2	69.07	54020.	.8131	-.1813	-.7011
Stddev	7.3	.81	395.	.4457	.2861	.9604
%RSD	4.172	1.175	.7320	54.81	157.8	137.0

#1	169.3	68.75	54460.	1.130	.1072	.1758
#2	172.9	68.46	53890.	1.006	-.4649	-.5517
#3	183.4	69.99	53700.	.3036	-.1862	-1.728

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-156908-a-1-j Acquired: 6/1/2018 0:22:42 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8020	2.341	-.0361	15.19	16.48	-.2048
Stddev	1.518	1.139	.1845	.40	.67	.1640
%RSD	189.3	48.68	511.4	2.656	4.074	80.11
#1	-1.648	3.479	.1443	14.87	15.85	-.3188
#2	-1.709	2.343	-.2244	15.07	16.40	-.0168
#3	.9507	1.200	-.0281	15.65	17.19	-.2787

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5231	13.46	.1502	121.4
Stddev	.4256	.03	.0651	9.3
%RSD	81.37	.2578	43.33	7.652
#1	.4681	13.50	.2138	124.5
#2	.9735	13.44	.1532	111.0
#3	.1276	13.44	.0837	128.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7028.2	43112.	9035.7
Stddev	23.2	174.	78.8
%RSD	.32961	.40390	.87228
#1	7024.2	42911.	8946.7
#2	7007.3	43217.	9063.8
#3	7053.1	43209.	9096.6

Sample Name: CCB Acquired: 6/1/2018 0:34:03 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.069	-.3350	-.0421	.4004	-.0031	10.46
Stddev	11.20	.6320	.2711	.3082	.1045	3.99
%RSD	184.5	188.6	643.6	76.96	3393.	38.11

#1	14.91	.2961	-.3321	.6766	.0661	14.05
#2	-6.523	-.3333	.2051	.4566	.0480	11.15
#3	9.817	-.9679	.0007	.0680	-.1233	6.170

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1521	-.1620	.4435	.9610	10.60	-25.94
Stddev	.1187	.0770	.5878	.7277	8.10	27.96
%RSD	78.00	47.54	132.5	75.73	76.38	107.8

#1	.0830	-.0797	1.121	1.790	15.69	2.324
#2	.0842	-.1740	.0681	.6652	14.84	-53.59
#3	.2891	-.2323	.1415	.4278	1.263	-26.56

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.541	.2933	28.26	.2456	.7083	1.023
Stddev	5.888	.2259	15.10	.1751	.7810	.241
%RSD	382.1	77.00	53.42	71.30	110.3	23.57

#1	4.501	.5512	43.70	.4473	1.568	.7446
#2	-7.261	.1985	27.55	.1331	.0433	1.173
#3	-1.863	.1304	13.53	.1563	.5132	1.151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 0:34:03 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1087	2.302	.1513	-.4928	3.271	.9520
Stddev	.3387	1.428	.2792	.1135	.574	.6651
%RSD	311.6	62.05	184.5	23.03	17.55	69.86
#1	-.0023	.7130	.4319	-.4258	3.621	1.687
#2	.4890	2.713	-.1265	-.6238	2.609	.7779
#3	-.1606	3.480	.1486	-.4288	3.584	.3913

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1964	.3147	2.669	-.8198
Stddev	.5013	.2946	1.575	7.565
%RSD	255.3	93.60	59.00	922.8
#1	.5391	.6501	4.393	7.469
#2	-.3790	.1966	2.310	-7.351
#3	.4289	.0976	1.305	-2.577

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7194.7	44473.	8972.2
Stddev	15.4	133.	106.6
%RSD	.21385	.29931	1.1879
#1	7194.2	44320.	8912.5
#2	7210.3	44553.	8908.8
#3	7179.5	44547.	9095.2

Sample Name: 460-156908-a-3-h@5 Acquired: 6/1/2018 0:50:08 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.38	9.762	-.1533	78.60	-.0624	12460.
Stddev	9.03	1.359	.4322	.67	.0219	87.
%RSD	79.36	13.92	281.9	.8527	35.03	.6974

#1	1.147	9.679	.3055	79.35	-.0461	12530.
#2	18.24	11.16	-.2127	78.39	-.0872	12490.
#3	14.75	8.446	-.5528	78.06	-.0539	12360.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0605	.8598	.5052	14.86	27.88	506.1
Stddev	.1406	.1113	.1458	.09	7.30	18.4
%RSD	232.4	12.95	28.85	.6277	26.17	3.625

#1	.0571	.7733	.4238	14.87	19.88	490.3
#2	-.2163	.9854	.4184	14.95	29.59	526.2
#3	-.0224	.8207	.6735	14.77	34.17	501.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	981.4	334.0	F 276100.	3.035	2.236	1.036
Stddev	11.0	2.2	3533.	.793	.961	.875
%RSD	1.124	.6547	1.279	26.13	42.99	84.54

#1	971.1	335.8	279600.	3.937	1.793	.5860
#2	980.1	334.5	276200.	2.717	1.576	.4762
#3	993.1	331.6	272600.	2.450	3.339	2.045

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-3-h@5 Acquired: 6/1/2018 0:50:08 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.562	2.450	.7317	52.02	79.93	-.0449
Stddev	2.263	2.840	.1202	.85	2.09	.1770
%RSD	144.9	115.9	16.42	1.635	2.612	394.7

#1	-1.210	.8568	.7792	51.85	79.54	-.2455
#2	.5046	.7640	.8209	51.26	78.06	.0218
#3	-3.979	5.729	.5951	52.93	82.18	.0892

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7799	71.57	.8473	747.9
Stddev	.3105	.90	.0840	8.8
%RSD	39.81	1.255	9.908	1.170

#1	.4427	72.10	.7507	743.5
#2	1.054	72.08	.8892	758.0
#3	.8433	70.54	.9022	742.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6828.2	42001.	9066.9
Stddev	37.0	225.	44.9
%RSD	.54258	.53528	.49530

#1	6787.0	41776.	9035.6
#2	6858.6	42003.	9046.8
#3	6839.2	42225.	9118.3

Sample Name: mb 460-523902/1-a Acquired: 6/1/2018 0:42:00 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.420	.2528	.1758	.0392	-.0350	1.972
Stddev	4.551	1.746	.2089	.1979	.0572	5.537
%RSD	70.89	690.5	118.8	505.1	163.5	280.7

#1	-4.181	.2847	.0820	.2454	.0286	3.130
#2	-3.422	1.982	.4151	.0214	-.0821	6.839
#3	-11.66	-1.509	.0303	-.1492	-.0515	-4.052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0500	-.1241	.3007	.2654	-1.997	-14.04
Stddev	.0556	.1438	.2037	.3324	6.053	11.98
%RSD	111.2	115.8	67.74	125.3	303.1	85.32

#1	.0289	-.2533	.2062	.6183	1.851	-12.26
#2	.1132	-.1498	.5345	.2196	-8.975	-26.82
#3	.0080	.0308	.1614	-.0418	1.132	-3.053

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.392	-.0251	23.87	.1438	-.1377	-1.116
Stddev	5.916	.0289	10.72	.2092	.4421	.130
%RSD	70.49	115.1	44.89	145.5	321.0	11.65

#1	-13.98	-.0232	33.02	-.0660	.0054	-1.180
#2	-2.193	-.0550	12.08	.1449	-.6337	-.9668
#3	-9.006	.0028	26.51	.3525	.2151	-1.202

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-523902/1-a Acquired: 6/1/2018 0:42:00 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.286	2.268	-.0307	-1.177	2.341	.0203
Stddev	.640	1.962	.1103	.131	.782	.2950
%RSD	49.75	86.50	359.1	11.09	33.39	1456.
#1	-.5784	2.314	-.0716	-1.108	1.439	.2954
#2	-1.456	4.206	-.1147	-1.095	2.825	.0567
#3	-1.823	.2835	.0942	-1.327	2.757	-.2913

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2739	.0339	.1089	18.85
Stddev	.2512	.0396	.1123	19.43
%RSD	91.72	116.6	103.1	103.1
#1	-.4313	.0106	.2370	-2.897
#2	-.4061	.0116	.0628	24.92
#3	.0158	.0796	.0270	34.52

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7050.1	44790.	9057.6
Stddev	138.6	556.	227.1
%RSD	1.9658	1.2420	2.5079
#1	7208.1	44996.	9185.1
#2	6993.2	45215.	9192.4
#3	6949.0	44161.	8795.4

Sample Name: 460-156908-a-2-h@5 Acquired: 6/1/2018 0:46:01 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.11	10.12	.1551	78.93	.0579	12140.
Stddev	8.19	1.50	.1841	.35	.0670	12.
%RSD	67.64	14.82	118.7	.4465	115.6	.0982

#1	8.270	11.53	.3474	79.25	.0020	12140.
#2	21.51	10.29	-.0195	78.55	.0396	12150.
#3	6.541	8.541	.1374	78.99	.1322	12120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0992	.8800	.0731	12.65	17.29	324.7
Stddev	.0845	.3513	.1389	.30	6.78	6.3
%RSD	85.20	39.92	189.9	2.367	39.21	1.954

#1	.0016	1.266	.1401	12.66	17.61	326.3
#2	.1488	.7961	-.0866	12.35	23.90	330.0
#3	.1473	.5783	.1658	12.95	10.36	317.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	981.5	340.2	F 280400.	2.938	1.747	-.6463
Stddev	21.3	1.1	698.	.253	1.258	1.836
%RSD	2.172	.3361	.2490	8.605	72.01	284.0

#1	957.0	341.2	279700.	2.754	1.846	-.5899
#2	995.9	340.4	281100.	2.833	.4421	-2.510
#3	991.7	339.0	280500.	3.226	2.952	1.160

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-2-h@5 Acquired: 6/1/2018 0:46:01 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.039	2.297	.5408	54.61	82.49	-.0832
Stddev	.897	1.556	.1629	.20	.38	.0823
%RSD	86.34	67.73	30.13	.3719	.4650	98.94

#1	-0.0628	4.027	.4537	54.59	82.79	-.1644
#2	-1.227	1.013	.4399	54.83	82.61	.0001
#3	-1.827	1.851	.7287	54.42	82.06	-.0852

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1383	71.47	.9381	806.0
Stddev	.6766	.27	.0567	5.9
%RSD	489.2	.3735	6.043	.7339

#1	.7938	71.71	.9580	812.7
#2	.1786	71.18	.9822	801.3
#3	-.5575	71.52	.8742	804.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6782.2	41957.	9120.9
Stddev	24.1	151.	59.3
%RSD	.35468	.36059	.65048

#1	6756.3	41885.	9185.4
#2	6786.5	41855.	9108.5
#3	6803.8	42131.	9068.7

Sample Name: 460-156908-a-4-h@5 Acquired: 6/1/2018 0:54:15 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.66	4.332	-1.1269	204.8	.0277	22810.
Stddev	8.91	.732	.1265	.5	.0169	75.
%RSD	37.64	16.89	99.66	.2474	60.92	.3282

#1	19.99	3.500	-.1067	205.2	.0087	22750.
#2	17.17	4.877	-.2623	204.9	.0409	22900.
#3	33.81	4.618	-.0117	204.2	.0337	22780.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0340	1.234	.5606	1.382	48.64	375.4
Stddev	.0517	.054	.3898	.175	4.21	23.7
%RSD	152.0	4.347	69.54	12.66	8.666	6.305

#1	.0056	1.270	.1186	1.291	45.85	383.6
#2	.0936	1.172	.8552	1.272	53.49	348.7
#3	.0028	1.259	.7081	1.584	46.58	393.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2205.	534.4	F 274200.	1.123	2.032	-.4710
Stddev	41.	1.1	6080.	.398	.703	1.431
%RSD	1.860	.1981	2.218	35.42	34.62	303.9

#1	2158.	533.7	279800.	1.045	2.555	-2.098
#2	2234.	535.6	274900.	1.554	1.232	.0927
#3	2222.	533.8	267800.	.7699	2.308	.5926

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-4-h@5 Acquired: 6/1/2018 0:54:15 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.598	1.716	1.284	18.84	51.65	.0401
Stddev	1.628	.726	.263	.49	1.09	.0648
%RSD	101.9	42.29	20.49	2.613	2.101	161.7
#1	-3.450	1.478	1.039	18.28	50.76	.0440
#2	-.9521	1.140	1.562	19.17	52.86	-.0266
#3	-.3922	2.532	1.252	19.08	51.34	.1028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5583	123.3	1.571	640.3
Stddev	.2364	1.4	.133	9.1
%RSD	42.35	1.107	8.468	1.415
#1	.3114	124.4	1.459	641.7
#2	.5809	123.7	1.718	648.6
#3	.7826	121.8	1.536	630.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6801.1	41928.	9100.5
Stddev	9.6	74.	18.0
%RSD	.14120	.17742	.19817
#1	6791.5	41985.	9100.4
#2	6800.9	41844.	9082.5
#3	6810.7	41954.	9118.6

Sample Name: 460-156383-e-6-f@4 Acquired: 5/31/2018 23:16:39 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45930.	31.79	-1.524	319.1	2.874	22220.
Stddev	127.	.73	.207	1.3	.031	138.
%RSD	.2754	2.281	13.60	.3993	1.071	.6191
#1	45820.	32.18	-1.459	318.8	2.886	22370.
#2	45900.	32.24	-1.358	320.4	2.839	22190.
#3	46070.	30.96	-1.756	317.9	2.897	22100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.556	43.15	121.1	128.6	114300.	4958.
Stddev	.118	.43	.2	.8	400.	42.
%RSD	7.571	1.006	.1742	.5834	.3497	.8529
#1	-1.530	43.13	121.3	128.3	114700.	4921.
#2	-1.453	43.59	121.1	129.5	114300.	4948.
#3	-1.685	42.73	120.9	128.1	113900.	5004.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16170.	1865.	2201.	80.75	39.16	-7.147
Stddev	73.	4.	16.	1.28	.41	1.662
%RSD	.4504	.2344	.7150	1.582	1.041	23.25
#1	16250.	1867.	2190.	80.72	39.56	-6.123
#2	16150.	1867.	2193.	82.05	38.75	-9.065
#3	16110.	1860.	2219.	79.49	39.17	-6.253

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156383-e-6-f@4 Acquired: 5/31/2018 23:16:39 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.294	-3.153	277.2	207.7	35.18	5.801
Stddev	2.565	.721	1.0	6.2	1.22	.056
%RSD	59.73	22.86	.3603	2.980	3.459	.9570
#1	-1.344	-2.499	277.6	208.3	35.41	5.742
#2	-5.537	-3.034	277.9	213.6	36.27	5.807
#3	-5.999	-3.926	276.0	201.3	33.87	5.853

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.118	91.30	2738.	789.8
Stddev	.808	.50	5.	37.9
%RSD	19.62	.5519	.1654	4.800
#1	4.463	90.74	2733.	749.7
#2	4.695	91.46	2742.	794.6
#3	3.195	91.71	2739.	825.1

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7085.7	44302.	9163.5
Stddev	2.6	327.	171.9
%RSD	.03710	.73836	1.8761
#1	7088.8	43950.	8969.2
#2	7084.0	44359.	9225.1
#3	7084.5	44597.	9296.1

Sample Name: 460-156383-f-8-h@4 Acquired: 5/31/2018 23:20:30 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20380.	7.171	.8167	274.7	1.212	7805.
Stddev	347.	1.882	.0927	.9	.015	120.
%RSD	1.701	26.25	11.35	.3189	1.204	1.535

#1	19990.	6.670	.8283	274.8	1.198	7667.
#2	20500.	9.253	.9030	275.6	1.210	7878.
#3	20650.	5.590	.7187	273.8	1.227	7871.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.983	14.52	51.55	454.8	36860.	2220.
Stddev	.128	.09	.98	1.7	561.	45.
%RSD	2.132	.6253	1.895	.3783	1.522	2.024

#1	5.990	14.41	50.50	456.8	36220.	2176.
#2	6.107	14.56	51.74	454.0	37160.	2219.
#3	5.852	14.58	52.42	453.6	37220.	2266.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5699.	555.9	1501.	38.38	172.3	-1.002
Stddev	83.	8.2	24.	.84	1.6	.889
%RSD	1.449	1.470	1.629	2.180	.9348	88.69

#1	5604.	546.5	1474.	37.44	170.7	-1.357
#2	5754.	561.1	1522.	38.66	172.3	-1.659
#3	5739.	560.1	1506.	39.03	173.9	.0092

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156383-f-8-h@4 Acquired: 5/31/2018 23:20:30 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0642	-1.014	69.74	3587.	20.16	17.87
Stddev	.3491	1.064	1.26	18.	1.40	.38
%RSD	543.7	105.0	1.808	.5071	6.925	2.105
#1	-.0395	-.0364	68.28	3575.	18.95	17.76
#2	-.2213	-2.148	70.40	3608.	19.84	17.56
#3	.4534	-.8568	70.53	3578.	21.68	18.29

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	31.77	45.42	481.4	911.0
Stddev	1.09	.71	6.8	19.8
%RSD	3.434	1.557	1.413	2.177
#1	31.11	44.60	473.5	892.3
#2	31.17	45.82	485.8	908.9
#3	33.03	45.84	484.8	931.8

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6986.1	44418.	9218.4
Stddev	22.8	282.	38.7
%RSD	.32589	.63537	.42031
#1	6963.1	44740.	9258.8
#2	6986.5	44218.	9214.9
#3	7008.6	44295.	9181.5

Sample Name: 460-156976-b-1-e@5 Acquired: 6/1/2018 1:18:50 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39.64	1.672	-3978	167.8	.0276	152900.
Stddev	4.66	.619	.4461	1.1	.0578	1205.
%RSD	11.75	37.02	112.2	.6385	209.1	.7879

#1	41.85	1.417	-.8879	168.4	.0098	154200.
#2	34.29	2.378	-.0153	166.6	-.0191	151800.
#3	42.79	1.222	-.2901	168.4	.0922	152700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2259	.8294	-1.208	.8324	18.69	583.3
Stddev	.0889	.0727	.271	.1948	12.33	9.1
%RSD	39.35	8.767	22.40	23.41	65.93	1.560

#1	.2108	.8728	-1.281	.8468	4.568	589.9
#2	.3214	.7455	-1.434	.6307	24.26	572.9
#3	.1455	.8700	-.9079	1.020	27.26	586.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1978.	540.7	F 292600.	3.861	-.2023	-.7068
Stddev	19.	4.0	4639.	.787	.7819	.3910
%RSD	.9484	.7486	1.586	20.40	386.6	55.31

#1	1979.	545.2	297800.	4.767	-1.072	-.4046
#2	1958.	537.3	289100.	3.348	.4429	-1.148
#3	1996.	539.5	290700.	3.466	.0221	-.5675

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156976-b-1-e@5 Acquired: 6/1/2018 1:18:50 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.351	2.141	.7907	1.178	8.575	-.0648
Stddev	1.557	1.313	.2011	.155	.849	.2679
%RSD	66.21	61.32	25.43	13.18	9.897	413.6

#1	-.7161	1.973	.9162	1.187	7.902	-.1141
#2	-3.815	3.529	.8972	1.018	9.528	.2244
#3	-2.522	.9198	.5588	1.328	8.295	-.3046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3754	96.27	1.498	569.9
Stddev	.5524	.91	.034	15.8
%RSD	147.1	.9413	2.288	2.777

#1	.8371	97.15	1.460	586.5
#2	.5258	95.34	1.526	555.0
#3	-.2365	96.34	1.509	568.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6573.2	40739.	8974.3
Stddev	34.4	307.	56.0
%RSD	.52294	.75246	.62404

#1	6567.6	40431.	8947.7
#2	6610.0	41044.	9038.7
#3	6541.9	40741.	8936.6

Sample Name: 460-156908-a-8-g@5 Acquired: 6/1/2018 1:10:37 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.22	.0809	-.0598	18.77	.7273	22830.
Stddev	6.58	.5316	.1808	.40	.0558	859.
%RSD	28.33	656.8	302.4	2.152	7.676	3.762

#1	28.59	.6542	-.1169	18.46	.7399	22050.
#2	15.88	-.3956	.1427	18.61	.6663	22700.
#3	25.20	-.0158	-.2052	19.22	.7758	23750.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2049	3.920	.6921	3.185	29.06	6996.
Stddev	.0808	.313	.3602	.287	11.26	181.
%RSD	39.42	7.993	52.04	9.001	38.73	2.581

#1	.2653	3.621	1.004	2.854	39.90	6789.
#2	.1132	3.893	.2981	3.338	29.87	7084.
#3	.2361	4.246	.7737	3.362	17.43	7117.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2921.	214.5	F 264100.	4.700	6.252	-.3366
Stddev	144.	11.2	1597.	.387	1.350	.7860
%RSD	4.937	5.223	.6047	8.235	21.59	233.5

#1	2779.	203.0	263000.	4.561	5.499	-.7447
#2	2918.	215.1	263300.	4.402	7.811	.5695
#3	3067.	225.4	265900.	5.137	5.447	-.8347

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-8-g@5 Acquired: 6/1/2018 1:10:37 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8403	.6949	.3707	14.17	14.64	-.1662
Stddev	2.596	.9892	.1986	.85	1.37	.1640
%RSD	308.9	142.4	53.57	5.996	9.349	98.67

#1	-3.722	-.3686	.2517	13.48	13.29	-.0540
#2	1.314	.8655	.2603	13.91	14.60	-.0902
#3	-.1131	1.588	.5999	15.12	16.02	-.3545

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.128	229.6	.7143	722.5
Stddev	.313	2.1	.0827	44.7
%RSD	27.74	.9130	11.57	6.189

#1	1.393	227.2	.6377	675.6
#2	.7828	230.6	.8019	727.2
#3	1.208	230.9	.7032	764.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6642.0	40648.	8930.0
Stddev	108.3	1172.	63.1
%RSD	1.6311	2.8843	.70662

#1	6730.8	41720.	9002.3
#2	6674.0	40827.	8886.5
#3	6521.3	39396.	8901.1

Sample Name: CCB Acquired: 6/1/2018 1:26:38 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.28	.7437	.2042	.6693	.3399	17.79
Stddev	68.51	.9851	.0294	.5222	.5879	6.14
%RSD	154.7	132.5	14.41	78.02	173.0	34.49

#1	122.9	1.135	.2196	1.272	1.019	23.15
#2	12.12	1.473	.1703	.3812	-.0128	19.13
#3	-2.239	-.3769	.2228	.3546	.0139	11.10

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0193	.0204	.3646	.8077	18.73	5.803
Stddev	.1037	.1689	.6766	.7226	13.75	7.818
%RSD	537.0	829.4	185.6	89.46	73.40	134.7

#1	.1383	.1964	1.073	1.611	31.16	6.869
#2	-.0521	-.1403	.2964	.6016	21.09	-2.493
#3	-.0283	.0050	-.2754	.2106	3.958	13.03

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.171	.2839	180.8	.3376	.8090	.6009
Stddev	9.101	.3387	205.6	.5426	.6359	.4363
%RSD	287.0	119.3	113.7	160.7	78.61	72.61

#1	13.25	.6579	418.2	.8301	1.155	1.047
#2	.7003	.1958	64.22	-.2441	1.197	.1747
#3	-4.439	-.0020	60.13	.4267	.0751	.5811

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 1:26:38 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.054	1.574	.2807	.8711	2.490	1.087
Stddev	1.618	.723	.3088	.1225	.788	.748
%RSD	153.5	45.89	110.0	14.06	31.65	68.87
#1	2.406	1.619	.4228	1.010	1.679	1.907
#2	1.494	2.273	.4928	.7775	2.540	.9100
#3	-.7388	.8304	-.0736	.8261	3.253	.4424

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2621	1.904	2.750	28.01
Stddev	.0489	2.951	1.738	14.83
%RSD	18.67	154.9	63.21	52.96
#1	.2950	5.309	4.671	16.66
#2	.2854	.3241	2.292	22.58
#3	.2059	.0803	1.287	44.79

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7055.8	44086.	9103.5
Stddev	176.6	109.	18.3
%RSD	2.5026	.24819	.20147
#1	7191.2	44201.	9122.2
#2	7120.0	43983.	9085.5
#3	6856.1	44074.	9102.9

Sample Name: CCVL Acquired: 6/1/2018 1:30:39 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	162.2	13.69	8.432	186.7	1.812	4359.
Stddev	8.5	1.05	.300	2.3	.041	57.
%RSD	5.213	7.649	3.556	1.240	2.251	1.306

#1	154.3	12.64	8.177	188.2	1.774	4313.
#2	171.1	14.73	8.358	187.8	1.855	4423.
#3	161.2	13.70	8.762	184.0	1.807	4341.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.807	46.85	10.86	22.89	162.1	4103.
Stddev	.037	.61	.85	1.43	13.7	100.
%RSD	.9761	1.312	7.815	6.266	8.464	2.445

#1	3.780	47.33	10.06	21.75	146.7	4010.
#2	3.849	47.07	10.76	22.42	166.8	4209.
#3	3.792	46.16	11.75	24.50	172.9	4089.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4374.	15.63	4213.	39.80	8.544	17.88
Stddev	109.	1.00	63.	.46	1.057	1.12
%RSD	2.490	6.414	1.500	1.154	12.37	6.268

#1	4257.	14.75	4186.	40.06	8.129	18.62
#2	4472.	15.41	4285.	40.06	7.757	18.44
#3	4394.	16.72	4168.	39.27	9.745	16.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 1:30:39 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15.51	22.61	45.90	29.99	43.30	18.57
Stddev	4.29	.44	1.28	.70	.45	.35
%RSD	27.68	1.928	2.782	2.347	1.046	1.879
#1	10.55	22.11	44.60	29.77	42.88	18.82
#2	18.06	22.86	47.16	30.77	43.78	18.73
#3	17.91	22.86	45.94	29.42	43.24	18.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	46.23	17.76	20.86	F 1.147
Stddev	.76	.35	1.66	10.65
%RSD	1.634	1.954	7.953	928.9
#1	46.09	17.51	19.62	3.168
#2	47.04	18.16	20.23	10.64
#3	45.55	17.62	22.75	-10.37

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7155.2	43880.	9096.5
Stddev	58.0	476.	84.5
%RSD	.81124	1.0844	.92923
#1	7128.1	44057.	9148.5
#2	7115.7	43341.	8999.0
#3	7221.9	44242.	9142.1

Sample Name: 460-156383-e-9-f@4 Acquired: 5/31/2018 23:24:22 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42590.	8.809	-1.815	145.7	2.634	13290.
Stddev	425.	.604	.268	3.1	.033	62.
%RSD	.9973	6.857	14.75	2.142	1.246	.4629

#1	42970.	8.845	-1.641	148.6	2.651	13270.
#2	42680.	9.394	-2.124	146.2	2.655	13350.
#3	42130.	8.188	-1.681	142.4	2.597	13230.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.199	39.20	88.79	112.2	111500.	3709.
Stddev	.317	.97	1.31	2.0	961.	49.
%RSD	14.42	2.475	1.481	1.763	.8621	1.320

#1	-1.932	40.20	90.03	113.7	112000.	3760.
#2	-2.116	39.15	88.92	112.9	112100.	3663.
#3	-2.549	38.26	87.41	109.9	110400.	3703.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14260.	1065.	1791.	71.50	25.89	-6.450
Stddev	70.	10.	12.	1.66	1.46	.427
%RSD	.4936	.9040	.6865	2.324	5.653	6.617

#1	14290.	1071.	1805.	72.59	26.74	-6.102
#2	14310.	1071.	1782.	72.32	26.73	-6.322
#3	14180.	1054.	1787.	69.59	24.20	-6.926

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156383-e-9-f@4 Acquired: 5/31/2018 23:24:22 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.186	-1.940	267.6	185.8	23.61	2.184
Stddev	1.575	2.171	3.4	3.0	.55	.257
%RSD	25.46	111.9	1.285	1.626	2.309	11.78
#1	-7.926	.3250	270.2	184.1	23.99	2.043
#2	-5.776	-4.002	268.8	189.3	23.85	2.481
#3	-4.857	-2.143	263.7	183.9	22.98	2.027

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.160	46.79	3087.	529.8
Stddev	.062	.52	42.	30.1
%RSD	1.495	1.116	1.366	5.685
#1	4.175	47.31	3117.	561.0
#2	4.091	46.82	3105.	527.6
#3	4.213	46.26	3039.	500.9

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7342.7	45637.	9376.7
Stddev	114.5	343.	49.9
%RSD	1.5596	.75192	.53249
#1	7212.0	45253.	9405.0
#2	7391.0	45744.	9406.0
#3	7425.2	45914.	9319.0

Sample Name: 460-156976-b-3-e@5 Acquired: 6/1/2018 1:34:36 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.15	1.004	-3501	178.4	.0349	159600.
Stddev	9.10	.909	.2944	1.2	.0487	638.
%RSD	47.50	90.58	84.09	.6541	139.6	.3997

#1	15.47	.9487	-.2743	177.3	.0864	158900.
#2	12.47	.1231	-.6751	179.6	.0286	160200.
#3	29.51	1.939	-.1011	178.3	-.0104	159600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0844	1.287	-.7913	1.203	5.263	1002.
Stddev	.1372	.198	.0452	.620	7.537	47.
%RSD	162.6	15.41	5.706	51.57	143.2	4.660

#1	-.0724	1.476	-.8356	1.919	11.43	948.7
#2	.1828	1.081	-.7929	.8592	-3.138	1019.
#3	.1427	1.305	-.7454	.8304	7.496	1037.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2358.	490.0	F 296500.	3.612	-1.774	-.1145
Stddev	16.	2.2	1522.	.327	.702	1.660
%RSD	.6938	.4435	.5134	9.046	39.60	1450.

#1	2342.	487.6	295700.	3.300	-1.298	-.5339
#2	2374.	491.8	295500.	3.952	-2.580	1.715
#3	2359.	490.7	298200.	3.586	-1.443	-1.524

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156976-b-3-e@5 Acquired: 6/1/2018 1:34:36 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.131	-.5325	.9824	1.102	18.47	.6551
Stddev	2.373	1.804	.3213	.150	1.70	.3344
%RSD	111.4	338.8	32.71	13.59	9.196	51.05

#1	-4.775	.8432	.8489	.9455	17.06	.2831
#2	-1.433	.1344	1.349	1.244	20.36	.7513
#3	-.1854	-2.575	.7493	1.115	18.01	.9308

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6629	121.4	1.880	3178.
Stddev	.2743	1.1	.611	31.
%RSD	41.38	.9296	32.52	.9760

#1	.7695	120.1	2.575	3146.
#2	.3513	121.6	1.639	3208.
#3	.8680	122.3	1.426	3179.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6575.0	40413.	8847.7
Stddev	28.5	59.	29.4
%RSD	.43367	.14575	.33184

#1	6598.5	40479.	8870.9
#2	6543.2	40366.	8857.5
#3	6583.1	40393.	8814.7

Sample Name: 460-156383-e-12-h@4 Acquired: 5/31/2018 23:32:03 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	56910.	10.07	-1.403	262.5	3.386	14030.
Stddev	227.	.28	.114	3.0	.038	33.
%RSD	.3993	2.807	8.144	1.162	1.130	.2384
#1	57080.	9.858	-1.467	264.5	3.430	14060.
#2	56990.	9.964	-1.471	264.0	3.367	14050.
#3	56650.	10.39	-1.271	259.0	3.362	14000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.836	54.64	151.0	152.8	142200.	4276.
Stddev	.238	.97	.4	1.1	695.	32.
%RSD	12.97	1.778	.2699	.7312	.4887	.7478
#1	-1.771	55.24	151.3	154.0	142800.	4299.
#2	-1.636	55.17	151.2	152.5	142300.	4290.
#3	-2.099	53.52	150.6	151.8	141500.	4240.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20230.	3381.	2974.	107.4	66.30	-8.248
Stddev	55.	14.	6.	1.2	1.17	1.589
%RSD	.2709	.4001	.1903	1.086	1.768	19.27
#1	20280.	3392.	2976.	108.1	66.91	-7.193
#2	20240.	3384.	2979.	108.0	67.05	-7.476
#3	20170.	3366.	2968.	106.1	64.95	-10.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156383-e-12-h@4 Acquired: 5/31/2018 23:32:03 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.122	-3.295	280.3	331.4	29.56	2.390
Stddev	1.483	1.334	1.5	9.2	.88	.171
%RSD	24.22	40.49	.5215	2.764	2.962	7.135
#1	-5.247	-4.118	281.7	338.8	30.16	2.493
#2	-7.833	-1.756	280.5	334.2	29.97	2.193
#3	-5.284	-4.012	278.8	321.2	28.56	2.484

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.743	64.76	3372.	607.7
Stddev	.669	.35	26.	18.1
%RSD	17.86	.5424	.7671	2.986
#1	3.246	65.16	3397.	595.8
#2	4.503	64.60	3372.	598.7
#3	3.480	64.51	3346.	628.6

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7366.1	45982.	9562.1
Stddev	16.5	170.	68.2
%RSD	.22467	.37078	.71311
#1	7351.4	45810.	9517.7
#2	7363.0	46151.	9528.0
#3	7384.0	45985.	9640.6

Sample Name: 460-156863-a-3-b@5 Acquired: 6/1/2018 1:50:56 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	107.8	-.2954	-.2699	115.9	.0264	66490.
Stddev	7.5	1.306	.1760	.7	.0202	785.
%RSD	6.984	442.0	65.21	.6124	76.62	1.180

#1	99.68	1.021	-.4521	115.2	.0270	66540.
#2	109.1	-.3173	-.2568	116.6	.0059	65680.
#3	114.6	-1.590	-.1008	116.0	.0463	67250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.115	.4380	6.814	88.03	24.41	1974.
Stddev	.128	.1383	.411	1.18	6.46	16.
%RSD	3.105	31.57	6.036	1.345	26.49	.7929

#1	3.970	.3539	7.254	86.66	20.60	1968.
#2	4.213	.5975	6.751	88.64	20.75	1963.
#3	4.160	.3625	6.438	88.78	31.87	1992.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2870.	100.1	F 285200.	13.84	171.0	.2547
Stddev	41.	1.5	1900.	.29	2.1	.8222
%RSD	1.439	1.493	.6662	2.132	1.212	322.8

#1	2840.	98.84	283500.	13.50	169.4	1.204
#2	2852.	99.71	287200.	13.94	170.3	-.2282
#3	2917.	101.8	284800.	14.06	173.3	-.2117

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156863-a-3-b@5 Acquired: 6/1/2018 1:50:56 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.862	-4.125	.2565	528.3	38.34	.2135
Stddev	.712	2.062	.1858	1.4	.57	.1275
%RSD	38.21	499.8	72.44	.2687	1.484	59.70

#1	-2.293	.4295	.0712	527.6	37.74	.0666
#2	-1.041	1.095	.4429	527.4	38.42	.2785
#3	-2.252	-2.762	.2554	529.9	38.87	.2954

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5643	424.8	1.068	1608.
Stddev	.4478	2.8	.082	6.
%RSD	79.36	.6626	7.674	.3875

#1	.8606	421.6	.9788	1604.
#2	.7830	425.8	1.084	1615.
#3	.0491	427.0	1.140	1606.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6686.5	41093.	9040.6
Stddev	5.3	362.	35.5
%RSD	.07888	.88212	.39262

#1	6688.1	40802.	9001.1
#2	6680.6	41499.	9069.8
#3	6690.8	40977.	9050.7

Sample Name: 460-156863-a-4-b@5 Acquired: 6/1/2018 1:54:59 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.72	1.977	-0.0610	110.7	.1507	7493.
Stddev	7.55	.214	.1894	.9	.0160	204.
%RSD	15.50	10.81	310.3	.7901	10.65	2.724

#1	56.49	1.902	-.2782	111.6	.1501	7657.
#2	41.40	2.218	.0695	110.4	.1349	7558.
#3	48.28	1.810	.0257	109.9	.1670	7265.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4817	5.877	4.784	4.159	3229.	617.6
Stddev	.0748	.106	.061	.304	34.	15.9
%RSD	15.53	1.805	1.269	7.314	1.060	2.572

#1	.5027	5.978	4.815	3.898	3260.	635.2
#2	.3986	5.767	4.714	4.085	3234.	604.3
#3	.5437	5.884	4.823	4.493	3192.	613.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	597.0	341.9	F 288300.	26.78	482.4	1.031
Stddev	9.2	6.1	2000.	.40	3.9	.307
%RSD	1.541	1.784	.6936	1.481	.8041	29.75

#1	606.3	348.1	289300.	27.22	482.2	1.300
#2	596.7	341.6	289600.	26.46	486.3	1.097
#3	587.9	335.9	286000.	26.66	478.6	.6971

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156863-a-4-b@5 Acquired: 6/1/2018 1:54:59 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.220	1.312	1.249	F 6473.	60.56	.1809
Stddev	1.339	.287	.022	82.	.77	.3086
%RSD	41.58	21.84	1.733	1.273	1.275	170.6
#1	-3.257	1.642	1.274	6568.	60.25	-.1722
#2	-1.863	1.173	1.236	6425.	61.43	.3986
#3	-4.540	1.122	1.238	6426.	59.98	.3162

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4374	35.09	.6314	546.7
Stddev	.0772	.37	.0336	16.6
%RSD	17.66	1.046	5.314	3.040
#1	.3502	35.51	.5934	552.5
#2	.4973	34.81	.6440	527.9
#3	.4646	34.96	.6568	559.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6777.8	41612.	9013.7
Stddev	65.8	847.	118.7
%RSD	.97075	2.0355	1.3165
#1	6704.9	40778.	8929.9
#2	6795.6	41586.	8961.8
#3	6832.8	42471.	9149.5

Sample Name: 460-156383-e-13-f@4 Acquired: 5/31/2018 23:35:53 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47500.	8.189	-8974	184.9	2.823	21180.
Stddev	101.	1.365	.2243	.6	.055	204.
%RSD	.2127	16.66	25.00	.3086	1.957	.9647
#1	47520.	8.404	-1.105	184.7	2.853	21190.
#2	47580.	6.730	-.9280	185.5	2.857	21380.
#3	47390.	9.434	-.6593	184.4	2.759	20970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.568	46.70	130.6	127.0	119200.	4432.
Stddev	.186	.30	.7	1.1	934.	41.
%RSD	11.85	.6446	.5215	.9039	.7837	.9173
#1	-1.667	46.95	130.5	126.2	119000.	4455.
#2	-1.683	46.78	131.3	126.4	120200.	4455.
#3	-1.353	46.36	130.0	128.3	118400.	4385.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17730.	2003.	2799.	97.40	45.27	-9.000
Stddev	151.	12.	13.	.11	1.03	.719
%RSD	.8508	.6000	.4807	.1178	2.280	7.985
#1	17700.	1999.	2814.	97.36	44.82	-8.431
#2	17900.	2017.	2787.	97.31	46.45	-9.808
#3	17600.	1994.	2797.	97.53	44.54	-8.761

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156383-e-13-f@4 Acquired: 5/31/2018 23:35:53 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.064	-1.136	261.6	205.4	30.74	1.998
Stddev	2.696	.692	1.5	4.2	1.08	.139
%RSD	66.34	60.91	.5895	2.058	3.525	6.942
#1	-5.307	-1.935	259.8	201.2	29.61	1.969
#2	-5.914	-7.070	262.5	205.4	30.83	2.149
#3	-.9705	-.7671	262.4	209.6	31.77	1.876

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.717	73.59	3119.	518.3
Stddev	.162	.08	16.	20.0
%RSD	4.355	.1056	.5264	3.857
#1	3.671	73.52	3109.	505.4
#2	3.896	73.67	3138.	508.2
#3	3.582	73.58	3110.	541.3

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7272.0	45754.	9580.2
Stddev	16.7	116.	104.0
%RSD	.22945	.25326	1.0860
#1	7291.2	45705.	9505.8
#2	7261.0	45670.	9535.8
#3	7263.7	45886.	9699.1

Sample Name: 460-156889-g-2-e@5 Acquired: 6/1/2018 2:07:18 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55.71	1.380	.0144	140.5	.9320	1071.
Stddev	7.46	1.772	.1660	1.1	.0564	11.
%RSD	13.40	128.4	1153.	.8131	6.056	1.044

#1	61.39	2.526	-.0436	141.8	.9145	1084.
#2	58.48	2.275	.2016	139.9	.8865	1065.
#3	47.26	-.6609	-.1148	139.8	.9952	1065.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2492	3.048	1.364	125.3	13.97	184.9
Stddev	.0587	.183	.265	.7	8.28	17.6
%RSD	23.57	6.016	19.43	.5968	59.29	9.498

#1	.1820	3.195	1.132	125.8	4.516	202.7
#2	.2746	3.106	1.653	125.6	19.95	167.6
#3	.2909	2.842	1.306	124.4	17.43	184.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121.3	34.81	F 280200.	23.10	217.2	-.5426
Stddev	1.9	.11	1891.	.69	2.1	.5755
%RSD	1.599	.3244	.6749	2.997	.9877	106.1

#1	119.1	34.83	282100.	22.37	219.6	-.3333
#2	122.2	34.91	278400.	23.18	216.3	-.1010
#3	122.7	34.68	279900.	23.75	215.7	-1.193

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156889-g-2-e@5 Acquired: 6/1/2018 2:07:18 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7089	.5803	1.028	302.8	8.290	-.2985
Stddev	1.016	1.183	.193	1.7	.252	.1705
%RSD	143.4	203.9	18.73	.5623	3.037	57.11
#1	-.7979	1.778	.8119	304.7	8.578	-.4512
#2	-1.678	-.5877	1.090	301.8	8.179	-.3298
#3	.3491	.5504	1.181	301.7	8.112	-.1146

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6532	6.884	.1501	231.8
Stddev	.1619	.099	.0811	14.4
%RSD	24.79	1.431	54.04	6.229
#1	.4670	6.953	.0601	221.6
#2	.7318	6.771	.2176	225.5
#3	.7608	6.928	.1726	248.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6794.1	41730.	9025.8
Stddev	67.4	499.	107.2
%RSD	.99234	1.1964	1.1877
#1	6718.4	41163.	8915.0
#2	6847.6	41921.	9033.3
#3	6816.4	42105.	9129.0

Sample Name: lb 460-522818/1-g@5 Acquired: 6/1/2018 2:11:22 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.208	-.5161	-.0502	.0137	-.0230	-18.26
Stddev	9.331	.7606	.0923	.1953	.0167	5.29
%RSD	113.7	147.4	183.8	1421.	72.87	28.96

#1	-16.41	-.2849	-.1423	.1851	-.0357	-23.65
#2	-10.15	.1021	.0422	-.1989	-.0040	-18.07
#3	1.941	-1.365	-.0504	.0551	-.0291	-13.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0518	-.1748	.4323	.4008	16.07	19.04
Stddev	.0643	.0494	.5152	.1638	4.03	8.57
%RSD	124.2	28.27	119.2	40.86	25.10	45.00

#1	-.1164	-.2024	.9330	.3255	11.44	20.11
#2	.0123	-.1177	.4603	.5887	18.79	9.985
#3	-.0513	-.2043	-.0963	.2883	17.98	27.02

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.318	-.0092	F 282800.	3.230	.2042	.0624
Stddev	4.090	.0114	373.	.487	.8128	.7197
%RSD	64.73	124.5	.1320	15.08	398.1	1153.

#1	-9.509	-.0203	282300.	3.763	.8712	-.7507
#2	-1.708	.0026	283000.	2.807	.4425	.3204
#3	-7.738	-.0098	282900.	3.121	-.7012	.6176

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: lb 460-522818/1-g@5 Acquired: 6/1/2018 2:11:22 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5987	1.856	.0221	-.1734	3.130	-.1512
Stddev	2.198	1.796	.2745	.0325	.244	.3335
%RSD	367.1	96.78	1243.	18.77	7.788	220.5
#1	-2.294	.3301	-.2948	-.1456	3.367	.0271
#2	1.884	1.402	.1726	-.1655	3.141	-.5359
#3	-1.386	3.836	.1884	-.2092	2.880	.0552

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8992	-.0230	-.0795	31.30
Stddev	.8290	.0978	.0977	5.16
%RSD	92.19	424.6	122.9	16.50
#1	1.461	-.0001	-.0134	25.34
#2	-.0529	-.1303	-.1918	34.13
#3	1.289	.0613	-.0333	34.44

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6812.4	41649.	9055.1
Stddev	31.9	197.	53.4
%RSD	.46818	.47251	.59000
#1	6801.7	41503.	9111.8
#2	6787.2	41572.	9005.7
#3	6848.2	41873.	9047.9

Sample Name: CCVL Acquired: 6/1/2018 2:23:16 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	175.2	13.70	8.048	188.2	1.833	4301.
Stddev	12.6	.87	.411	.5	.097	44.
%RSD	7.215	6.371	5.110	.2597	5.276	1.031

#1	186.9	12.94	7.936	188.6	1.840	4286.
#2	176.8	14.66	8.503	187.7	1.927	4266.
#3	161.8	13.51	7.704	188.5	1.734	4351.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.886	46.82	10.87	21.83	150.5	4101.
Stddev	.046	.34	.29	.34	14.1	36.
%RSD	1.183	.7208	2.623	1.555	9.338	.8853

#1	3.880	46.69	10.63	21.63	156.0	4138.
#2	3.934	46.56	10.80	21.63	134.5	4065.
#3	3.843	47.20	11.18	22.22	161.0	4099.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4337.	14.96	4260.	39.66	9.763	18.78
Stddev	95.	.29	28.	.73	.413	1.84
%RSD	2.192	1.910	.6659	1.835	4.230	9.819

#1	4256.	14.74	4291.	39.53	9.974	18.23
#2	4313.	14.84	4253.	39.00	10.03	17.28
#3	4441.	15.28	4235.	40.44	9.287	20.84

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 2:23:16 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.50	23.59	45.30	29.87	43.52	18.35
Stddev	.85	1.20	1.20	.22	.81	.28
%RSD	5.164	5.094	2.641	.7382	1.860	1.503
#1	15.72	24.04	44.26	29.71	43.96	18.25
#2	16.37	22.23	45.02	29.78	42.58	18.13
#3	17.41	24.51	46.61	30.12	44.01	18.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.79	17.83	19.76	F .3014
Stddev	.64	.09	.58	10.13
%RSD	1.394	.4817	2.929	3361.
#1	45.06	17.87	19.24	7.638
#2	46.04	17.89	19.66	-11.25
#3	46.26	17.73	20.38	4.519

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7151.3	44293.	9215.1
Stddev	35.0	257.	62.1
%RSD	.48914	.57971	.67365
#1	7141.9	44327.	9230.4
#2	7190.0	44531.	9268.1
#3	7122.0	44021.	9146.8

Sample Name: CCB Acquired: 6/1/2018 2:19:16 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.457	.0893	.0922	.7600	.0004	12.28
Stddev	2.659	1.637	.5020	.5520	.0047	5.39
%RSD	108.2	1833.	544.8	72.63	1127.	43.89
#1	-1.552	-1.785	-.4662	1.397	-.0047	9.459
#2	-.3693	1.239	.5062	.4406	.0013	8.889
#3	-5.451	.8137	.2366	.4420	.0047	18.50

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1961	.0051	.5225	.4171	6.757	23.41
Stddev	.0867	.1778	.1333	.5499	12.56	39.28
%RSD	44.23	3497.	25.52	131.8	185.9	167.8
#1	.2595	.2103	.6681	.0113	16.00	32.36
#2	.2315	-.0920	.4064	.1970	-7.550	57.43
#3	.0973	-.1030	.4930	1.043	11.83	-19.58

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.235	.4021	89.45	.5131	.2443	.7070
Stddev	4.524	.1464	27.54	.3230	.7468	1.973
%RSD	366.4	36.41	30.78	62.94	305.7	279.0
#1	3.235	.3466	111.8	.7926	.0381	2.489
#2	-3.945	.2915	97.88	.5871	1.072	1.045
#3	4.414	.5681	58.69	.1596	-.3778	-1.413

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 2:19:16 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5586	3.013	.1582	1.327	2.586	1.217
Stddev	.6235	2.023	.1989	.042	1.011	.962
%RSD	111.6	67.14	125.7	3.155	39.08	79.01
#1	.1343	4.601	.0707	1.336	2.192	2.302
#2	.2671	.7354	.0182	1.282	3.735	.8802
#3	1.275	3.702	.3859	1.364	1.832	.4695

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0955	.2152	2.783	11.36
Stddev	.1494	.1552	.980	12.37
%RSD	156.5	72.11	35.23	108.9
#1	.0025	.3402	3.913	-1.969
#2	.2679	.2640	2.274	13.56
#3	.0161	.0415	2.161	22.48

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7074.7	43911.	9042.4
Stddev	69.1	496.	141.8
%RSD	.97606	1.1292	1.5679
#1	7150.5	44437.	9184.7
#2	7058.5	43843.	9041.4
#3	7015.2	43453.	8901.1

Sample Name: CCV Acquired: 6/1/2018 2:15:33 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123500.	2563.	1225.	10400.	988.5	123400.
Stddev	5745.	117.	56.	458.	45.5	5710.
%RSD	4.653	4.562	4.552	4.410	4.604	4.626

#1	119400.	2429.	1177.	9870.	955.3	118500.
#2	121000.	2643.	1212.	10720.	969.9	122000.
#3	130000.	2617.	1286.	10600.	1040.	129700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1305.	2577.	5073.	12440.	99960.	48990.
Stddev	58.	114.	241.	599.	4667.	2248.
%RSD	4.417	4.439	4.757	4.810	4.669	4.589

#1	1239.	2446.	4867.	11930.	95960.	47350.
#2	1345.	2657.	5014.	12290.	98840.	48060.
#3	1331.	2627.	5339.	13100.	105100.	51550.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123200.	5214.	125000.	2630.	7669.	1017.
Stddev	5851.	244.	5659.	115.	327.	48.
%RSD	4.750	4.686	4.526	4.388	4.258	4.673

#1	118100.	5004.	121000.	2497.	7295.	963.3
#2	121800.	5157.	122700.	2708.	7898.	1054.
#3	129600.	5482.	131500.	2684.	7813.	1034.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 2:15:33 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2535.	2588.	2487.	2640.	1008.	2519.
Stddev	120.	114.	118.	115.	47.	115.
%RSD	4.715	4.411	4.734	4.352	4.630	4.559

#1	2399.	2459.	2385.	2508.	954.3	2388.
#2	2621.	2674.	2461.	2720.	1040.	2601.
#3	2585.	2632.	2616.	2691.	1029.	2568.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1023.	4998.	9846.	9732.
Stddev	44.	231.	486.	412.
%RSD	4.284	4.624	4.936	4.231

#1	973.2	4832.	9437.	9258.
#2	1054.	4901.	9717.	9947.
#3	1043.	5262.	10380.	9992.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6490.2	40664.	8689.0
Stddev	243.2	1541.	308.5
%RSD	3.7477	3.7893	3.5502

#1	6769.6	41985.	8907.2
#2	6325.6	41037.	8823.8
#3	6375.4	38971.	8336.1

Sample Name: mb 460-523915/1-a@2 Acquired: 6/1/2018 2:27:14 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.34	1.312	.0417	.1059	.0854	-4.408
Stddev	6.09	.857	.6345	.1694	.0980	5.384
%RSD	29.93	65.29	1521.	160.0	114.7	122.1

#1	25.58	.9443	-.6725	.2574	.1944	-1.889
#2	21.79	.7006	.5401	-.0770	.0572	-.7448
#3	13.66	2.291	.2575	.1374	.0047	-10.59

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0075	-.0949	-.1033	-.7677	-5.172	-26.76
Stddev	.0667	.0533	.3137	.4192	9.589	13.91
%RSD	888.5	56.14	303.8	54.61	185.4	52.00

#1	-.0700	-.1524	-.2588	-.9301	5.630	-27.88
#2	.0627	-.0472	.2578	-1.081	-12.68	-40.07
#3	-.0151	-.0851	-.3088	-.2916	-8.468	-12.32

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.536	-.0057	68.76	-1.154	-.9553	-.8562
Stddev	1.196	.0529	30.24	.1994	.3801	1.103
%RSD	15.87	927.2	43.98	172.9	39.79	128.8

#1	-6.534	.0553	103.5	-.3238	-1.122	-.5535
#2	-8.860	-.0399	48.48	.0737	-.5203	.0639
#3	-7.213	-.0325	54.29	-.0960	-1.223	-2.079

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-523915/1-a@2 Acquired: 6/1/2018 2:27:14 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7180	1.323	-.2209	-1.008	.7339	-.1377
Stddev	1.367	.375	.1027	.075	.5006	.1932
%RSD	190.4	28.34	46.47	7.416	68.21	140.3
#1	-1.136	1.253	-.1169	-1.080	.1921	.0333
#2	-1.827	1.727	-.3221	-1.014	.8304	-.3474
#3	.8090	.9875	-.2236	-.9305	1.179	-.0990

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0305	.3366	.0807	-2.617
Stddev	.3734	.5719	.0685	17.08
%RSD	1225.	169.9	84.87	652.7
#1	.3617	.9968	.0045	-20.08
#2	-.0714	-.0063	.1373	-1.831
#3	-.3818	.0193	.1003	14.06

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7173.5	44225.	9051.6
Stddev	155.9	1093.	199.8
%RSD	2.1730	2.4702	2.2078
#1	7304.7	44794.	9009.8
#2	7214.5	44916.	9269.0
#3	7001.2	42966.	8875.9

Sample Name: pds 460-156942-b-1-b Acquired: 6/1/2018 2:34:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41280.	1905.	46.20	2452.	50.25	F 295900.
Stddev	323.	4.	.13	7.	.59	1224.
%RSD	.7830	.2113	.2829	.2769	1.175	.4137
#1	41180.	1900.	46.26	2445.	50.51	294800.
#2	41030.	1908.	46.29	2458.	49.57	295800.
#3	41650.	1907.	46.05	2454.	50.66	297200.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.51	505.9	292.2	379.9	60950.	24400.
Stddev	.10	1.4	2.4	2.0	286.	179.
%RSD	.2127	.2692	.8283	.5333	.4692	.7343
#1	48.50	504.4	289.5	378.9	60700.	24330.
#2	48.61	506.9	292.8	378.5	60890.	24270.
#3	48.40	506.4	294.2	382.2	61260.	24610.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51940.	1997.	21920.	540.4	803.1	476.4
Stddev	194.	9.	133.	1.3	.5	2.5
%RSD	.3743	.4373	.6050	.2331	.0591	.5224
#1	51760.	1991.	21840.	539.0	802.6	473.8
#2	51910.	1993.	21840.	540.9	803.6	476.8
#3	52150.	2007.	22070.	541.3	803.0	478.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-156942-b-1-b Acquired: 6/1/2018 2:34:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1893.	1979.	596.1	1164.	585.3	491.2
Stddev	3.	6.	3.1	6.	1.6	1.6
%RSD	.1404	.2940	.5252	.4838	.2766	.3349
#1	1892.	1973.	594.8	1157.	583.6	489.3
#2	1896.	1984.	593.8	1167.	586.8	492.5
#3	1890.	1979.	599.6	1167.	585.6	491.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	505.1	1626.	2435.	818.4
Stddev	1.7	10.	10.	13.8
%RSD	.3457	.6292	.4253	1.686
#1	503.2	1623.	2429.	804.7
#2	505.4	1618.	2429.	832.3
#3	506.7	1637.	2447.	818.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6815.1	42054.	8936.3
Stddev	4.5	76.	60.1
%RSD	.06634	.18019	.67277
#1	6814.7	41992.	8923.0
#2	6810.7	42138.	9001.9
#3	6819.8	42030.	8883.9

Sample Name: sd 460-156942-b-1-b Acquired: 6/1/2018 2:49:55 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7739.	4.013	.0717	105.0	.5493	55230.
Stddev	45.	.462	.1480	4.1	.0078	625.
%RSD	.5851	11.51	206.5	3.912	1.414	1.132
#1	7690.	4.315	.0612	102.2	.5442	54850.
#2	7779.	4.244	-.0708	103.2	.5582	55950.
#3	7747.	3.481	.2246	109.7	.5453	54890.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0889	4.731	19.63	26.09	12810.	1061.
Stddev	.0454	.267	.35	.38	233.	29.
%RSD	51.02	5.644	1.776	1.467	1.816	2.719
#1	-.0417	4.535	19.37	25.69	12590.	1031.
#2	-.1322	4.623	20.03	26.45	13050.	1089.
#3	-.0928	5.035	19.50	26.15	12800.	1063.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7017.	308.1	527.0	13.30	71.90	-.4581
Stddev	139.	3.4	4.5	.27	3.42	1.322
%RSD	1.987	1.087	.8593	1.995	4.751	288.5
#1	6876.	306.0	522.0	13.39	70.51	-.1249
#2	7155.	312.0	530.8	13.00	69.40	.6651
#3	7018.	306.4	528.2	13.50	75.79	-1.915

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-156942-b-1-b Acquired: 6/1/2018 2:49:55 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2274	1.727	22.77	150.8	24.58	.6044
Stddev	1.220	2.271	.14	7.2	2.20	.1707
%RSD	536.6	131.5	.6188	4.760	8.961	28.25
#1	-.9358	3.708	22.69	144.9	22.82	.4085
#2	-.9283	-.7523	22.68	148.7	23.86	.6832
#3	1.182	2.225	22.93	158.8	27.05	.7215

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.438	226.8	389.6	167.1
Stddev	.340	1.9	3.4	26.7
%RSD	6.252	.8319	.8727	15.99
#1	5.220	224.7	387.7	151.8
#2	5.830	228.4	393.5	151.6
#3	5.264	227.3	387.5	198.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6956.1	43576.	9041.4
Stddev	234.5	377.	63.0
%RSD	3.3713	.86587	.69672
#1	7124.9	43866.	9104.9
#2	7055.0	43149.	8978.9
#3	6688.3	43713.	9040.3

Sample Name: 460-156942-b-1-c du Acquired: 6/1/2018 2:42:14 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39430.	23.36	.3856	542.9	2.784	F 285000.
Stddev	173.	.58	.0688	1.7	.044	3188.
%RSD	.4393	2.474	17.83	.3140	1.580	1.119
#1	39590.	23.09	.3062	543.7	2.802	288300.
#2	39250.	22.97	.4236	544.0	2.815	284700.
#3	39440.	24.02	.4270	540.9	2.734	282000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1225	20.98	96.21	111.1	61110.	6437.
Stddev	.1800	.10	1.35	.4	621.	35.
%RSD	147.0	.4949	1.400	.3403	1.016	.5506
#1	-.3058	21.00	97.72	110.7	61760.	6469.
#2	-.1158	21.07	95.78	111.5	61050.	6399.
#3	.0541	20.87	95.14	111.2	60520.	6443.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30860.	1485.	2495.	64.90	319.0	-2.430
Stddev	307.	16.	6.	.56	3.1	1.218
%RSD	.9936	1.087	.2526	.8659	.9818	50.14
#1	31180.	1502.	2493.	64.25	316.6	-1.114
#2	30840.	1483.	2490.	65.23	318.0	-2.657
#3	30570.	1469.	2502.	65.22	322.6	-3.519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156942-b-1-c du Acquired: 6/1/2018 2:42:14 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.114	.9042	111.5	704.8	106.4	3.885
Stddev	4.953	1.147	.1	3.8	2.6	.346
%RSD	159.1	126.8	.1174	.5385	2.443	8.912
#1	1.790	-.3696	111.4	709.1	104.2	3.723
#2	-3.017	1.854	111.6	702.3	105.8	4.283
#3	-8.115	1.229	111.6	702.8	109.3	3.650

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	14.81	1187.	1941.	831.2
Stddev	.33	6.	16.	11.0
%RSD	2.237	.5022	.8117	1.320
#1	14.50	1193.	1958.	824.5
#2	14.77	1182.	1938.	825.3
#3	15.16	1185.	1927.	843.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6976.0	43054.	9100.8
Stddev	31.0	651.	65.2
%RSD	.44461	1.5129	.71684
#1	6940.8	42375.	9025.6
#2	6987.6	43113.	9143.0
#3	6999.5	43674.	9133.7

Sample Name: 460-156942-a-12-c@4 Acquired: 6/1/2018 3:01:30 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45940.	28.53	-1.1860	386.1	2.902	106000.
Stddev	104.	1.89	.1038	.6	.047	552.
%RSD	.2264	6.639	55.81	.1672	1.619	.5207
#1	45890.	27.30	-.1972	386.2	2.859	105500.
#2	45860.	27.58	-.2836	385.4	2.893	105900.
#3	46050.	30.71	-.0770	386.6	2.952	106600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.693	42.45	96.73	152.9	105900.	4479.
Stddev	.025	.26	1.36	.9	529.	17.
%RSD	1.509	.6189	1.404	.6155	.4995	.3861
#1	-1.672	42.15	95.88	152.0	105500.	4491.
#2	-1.686	42.66	96.02	153.0	105800.	4459.
#3	-1.721	42.52	98.30	153.8	106500.	4487.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23840.	2871.	1551.	88.87	222.3	-5.900
Stddev	123.	16.	7.	.61	.3	.193
%RSD	.5165	.5604	.4219	.6840	.1168	3.274
#1	23710.	2856.	1556.	88.20	222.1	-6.121
#2	23850.	2868.	1554.	89.01	222.3	-5.815
#3	23960.	2888.	1544.	89.39	222.6	-5.763

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156942-a-12-c@4 Acquired: 6/1/2018 3:01:30 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.799	-1.888	164.8	429.2	498.8	4.041
Stddev	.966	2.870	1.5	4.7	4.7	.341
%RSD	20.13	152.0	.8916	1.097	.9371	8.432
#1	-4.541	-5.179	163.4	424.1	493.6	3.737
#2	-5.868	-5.775	164.6	430.1	500.2	4.409
#3	-3.988	.0933	166.4	433.4	502.6	3.976

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.32	575.2	1951.	3970.
Stddev	.74	.9	7.	13.
%RSD	5.529	.1508	.3383	.3225
#1	14.01	574.2	1946.	3967.
#2	13.41	575.4	1949.	3960.
#3	12.55	575.9	1959.	3985.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7103.7	43505.	9081.0
Stddev	57.5	259.	100.6
%RSD	.80960	.59421	1.1081
#1	7043.1	43209.	8965.0
#2	7110.3	43685.	9132.6
#3	7157.6	43621.	9145.3

Sample Name: CCV Acquired: 6/1/2018 3:05:19 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124400.	2570.	1230.	10370.	994.6	123800.
Stddev	5124.	101.	49.	415.	41.9	5167.
%RSD	4.119	3.926	3.979	3.998	4.213	4.173

#1	120800.	2458.	1190.	9906.	965.1	119600.
#2	122100.	2653.	1215.	10700.	976.3	122300.
#3	130300.	2600.	1284.	10510.	1043.	129600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1309.	2566.	5114.	12540.	100400.	49300.
Stddev	52.	104.	211.	509.	4192.	2041.
%RSD	3.973	4.046	4.125	4.060	4.174	4.139

#1	1250.	2450.	4939.	12120.	97030.	47870.
#2	1350.	2650.	5056.	12400.	99140.	48390.
#3	1327.	2598.	5348.	13110.	105100.	51640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123500.	5244.	126000.	2629.	7634.	1022.
Stddev	5061.	219.	5194.	105.	295.	43.
%RSD	4.099	4.179	4.121	3.999	3.863	4.194

#1	119200.	5059.	122400.	2510.	7303.	973.0
#2	122100.	5188.	123700.	2709.	7867.	1054.
#3	129000.	5486.	132000.	2667.	7733.	1039.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 3:05:19 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2528.	2570.	2494.	2647.	1010.	2519.
Stddev	99.	108.	102.	109.	41.	104.
%RSD	3.897	4.194	4.094	4.113	4.028	4.118

#1	2418.	2449.	2406.	2526.	963.6	2401.
#2	2608.	2657.	2468.	2737.	1040.	2598.
#3	2559.	2604.	2606.	2679.	1025.	2556.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1023.	5022.	9809.	9682.
Stddev	42.	208.	450.	384.
%RSD	4.150	4.139	4.584	3.968

#1	975.2	4876.	9411.	9239.
#2	1057.	4930.	9718.	9882.
#3	1035.	5260.	10300.	9925.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6579.7	41039.	8694.6
Stddev	228.9	1404.	268.8
%RSD	3.4791	3.4204	3.0919

#1	6838.6	42259.	8892.0
#2	6404.1	41352.	8803.4
#3	6496.5	39505.	8388.5

Sample Name: 460-156942-a-10-d@4 Acquired: 6/1/2018 2:57:40 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	60480.	18.95	-7716	458.5	3.654	179400.
Stddev	315.	1.21	.2590	2.3	.086	664.
%RSD	.5204	6.381	33.57	.4931	2.349	.3701
#1	60780.	17.96	-1.065	455.9	3.556	178800.
#2	60150.	18.58	-.6728	459.7	3.716	180100.
#3	60520.	20.29	-.5765	459.9	3.690	179400.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.313	26.56	104.5	98.56	89800.	5077.
Stddev	.115	.55	.7	.12	271.	34.
%RSD	8.734	2.074	.7137	.1250	.3016	.6619
#1	-1.444	25.98	103.7	98.44	89610.	5105.
#2	-1.266	26.62	104.8	98.69	90110.	5040.
#3	-1.229	27.08	105.2	98.56	89670.	5085.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23600.	1685.	1598.	60.34	253.2	-3.774
Stddev	65.	3.	9.	.48	1.8	1.052
%RSD	.2754	.1931	.5503	.7897	.6981	27.87
#1	23530.	1682.	1605.	60.20	251.9	-4.456
#2	23660.	1688.	1588.	59.94	255.2	-2.563
#3	23600.	1686.	1600.	60.87	252.6	-4.304

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-156942-a-10-d@4 Acquired: 6/1/2018 2:57:40 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.250	-1.718	148.9	702.2	56.98	3.903
Stddev	.966	1.440	.7	6.2	.16	.196
%RSD	22.73	83.82	.4442	.8820	.2739	5.022
#1	-3.139	-3.381	148.1	695.7	56.81	3.677
#2	-4.892	-.8605	149.3	702.9	57.02	4.022
#3	-4.720	-.9131	149.3	708.0	57.12	4.010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	22.18	767.2	2004.	3865.
Stddev	.54	3.6	3.	15.
%RSD	2.448	.4734	.1494	.3832
#1	22.40	771.1	2007.	3879.
#2	22.58	764.0	2001.	3849.
#3	21.56	766.4	2003.	3867.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7131.0	43684.	9180.3
Stddev	19.0	290.	68.9
%RSD	.26713	.66276	.75096
#1	7109.3	43383.	9114.8
#2	7144.9	43710.	9252.2
#3	7138.9	43960.	9174.1

Sample Name: 460-156914-a-2-g@4 Acquired: 6/1/2018 3:20:59 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50730.	3.335	-1.210	85.05	3.078	47070.
Stddev	556.	.377	.107	1.01	.068	705.
%RSD	1.096	11.29	8.812	1.187	2.196	1.499

#1	50120.	3.008	-1.111	84.51	3.017	46270.
#2	51190.	3.251	-1.323	84.41	3.151	47620.
#3	50890.	3.747	-1.195	86.21	3.066	47310.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.657	71.78	75.81	353.6	120000.	1493.
Stddev	.357	1.32	1.08	1.3	1623.	30.
%RSD	13.43	1.834	1.423	.3807	1.352	2.027

#1	-2.503	70.67	74.57	352.1	118200.	1465.
#2	-3.065	71.42	76.29	354.1	121300.	1490.
#3	-2.404	73.23	76.56	354.6	120600.	1525.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54420.	1435.	4567.	162.9	24.16	-11.47
Stddev	840.	18.	50.	2.8	.94	.88
%RSD	1.543	1.285	1.087	1.728	3.909	7.667

#1	53470.	1414.	4518.	161.0	24.16	-11.92
#2	55050.	1448.	4617.	161.6	23.21	-12.03
#3	54750.	1443.	4565.	166.2	25.10	-10.46

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-2-g@4 Acquired: 6/1/2018 3:20:59 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.763	-3.669	236.4	150.2	749.8	2.002
Stddev	1.356	2.117	2.8	3.0	12.8	.128
%RSD	28.48	57.69	1.202	2.021	1.712	6.405

#1	-3.441	-4.749	233.2	147.6	739.4	1.972
#2	-6.151	-1.231	237.3	149.5	745.8	2.143
#3	-4.697	-5.028	238.7	153.5	764.1	1.892

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.034	125.3	7086.	734.6
Stddev	.528	1.0	85.	12.4
%RSD	6.569	.8137	1.203	1.693

#1	7.747	124.2	7000.	720.3
#2	7.713	126.2	7170.	742.8
#3	8.643	125.5	7089.	740.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7142.2	44115.	9152.6
Stddev	23.9	221.	55.3
%RSD	.33471	.50199	.60450

#1	7148.9	44366.	9127.7
#2	7162.0	43950.	9114.1
#3	7115.6	44027.	9216.0

Sample Name: 460-156914-a-1-g@4 Acquired: 6/1/2018 3:17:02 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61640.	11.35	-1.442	97.73	3.697	66800.
Stddev	351.	1.64	.521	.82	.077	593.
%RSD	.5696	14.40	36.14	.8397	2.089	.8875

#1	61870.	11.03	-1.531	97.37	3.677	67120.
#2	61230.	13.13	-1.913	97.15	3.632	66120.
#3	61800.	9.905	-.8821	98.67	3.782	67180.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.074	84.54	108.4	454.7	137700.	3055.
Stddev	.436	1.19	1.2	5.4	1040.	25.
%RSD	14.20	1.403	1.080	1.180	.7550	.8316

#1	-3.295	84.17	108.7	455.3	138400.	3055.
#2	-3.356	83.57	107.2	449.1	136500.	3029.
#3	-2.571	85.86	109.4	459.8	138200.	3080.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63610.	1949.	4389.	186.4	38.77	-12.09
Stddev	579.	15.	37.	1.5	1.57	.86
%RSD	.9106	.7748	.8523	.8279	4.059	7.120

#1	64020.	1959.	4424.	185.6	37.33	-12.20
#2	62950.	1932.	4350.	185.3	38.54	-11.18
#3	63880.	1957.	4392.	188.1	40.45	-12.90

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-1-g@4 Acquired: 6/1/2018 3:17:02 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.444	-3.200	265.3	191.0	1030.	3.543
Stddev	2.750	.625	2.7	2.3	12.	.100
%RSD	50.51	19.54	1.002	1.210	1.149	2.833
#1	-2.739	-3.375	264.7	189.6	1026.	3.487
#2	-5.357	-3.719	263.0	189.7	1021.	3.658
#3	-8.236	-2.506	268.2	193.7	1043.	3.483

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.598	128.3	7715.	674.8
Stddev	.660	1.5	45.	28.1
%RSD	7.680	1.159	.5781	4.170
#1	9.264	129.9	7731.	706.7
#2	8.586	127.0	7664.	664.2
#3	7.944	127.8	7749.	653.5

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7069.3	43593.	8999.4
Stddev	64.5	547.	73.0
%RSD	.91221	1.2540	.81090
#1	6998.0	42963.	8917.5
#2	7086.4	43936.	9057.4
#3	7123.6	43881.	9023.4

Sample Name: CCB Acquired: 6/1/2018 3:09:03 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.417	.2259	-.0491	.4100	.0603	15.67
Stddev	11.51	.8361	.5692	.1559	.0551	5.17
%RSD	260.6	370.2	1160.	38.03	91.47	33.00

#1	7.661	.7268	.5666	.5461	.0981	20.58
#2	-8.370	-.7393	-.5560	.4441	-.0030	16.16
#3	13.96	.6901	-.1578	.2399	.0857	10.27

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0496	-.0729	.1332	-.7775	11.20	-4.873
Stddev	.0370	.0156	.3461	.1084	6.09	9.937
%RSD	74.56	21.35	259.8	13.94	54.33	203.9

#1	.0844	-.0749	.5012	-.6684	17.47	-15.31
#2	.0108	-.0565	.0840	-.8852	5.310	4.468
#3	.0537	-.0874	-.1856	-.7790	10.83	-3.774

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.076	.2938	45.32	.3388	.6884	1.219
Stddev	2.587	.1854	5.56	.0540	.8705	1.654
%RSD	84.09	63.11	12.28	15.94	126.5	135.7

#1	6.017	.5044	50.51	.3598	1.350	.6144
#2	2.060	.2219	46.01	.3790	1.013	3.091
#3	1.152	.1551	39.44	.2774	-.2977	-.0484

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 3:09:03 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0984	2.624	.0971	1.097	2.329	1.070
Stddev	.8649	.175	.1714	.206	.466	.544
%RSD	879.2	6.656	176.6	18.74	20.01	50.86
#1	.6324	2.430	.2922	1.209	2.380	1.692
#2	-1.053	2.675	-.0294	.8599	1.839	.8313
#3	.1257	2.768	.0284	1.223	2.767	.6853

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0696	.2168	2.414	-10.39
Stddev	.4326	.1838	1.257	11.80
%RSD	621.4	84.78	52.07	113.5
#1	-.3131	.4270	3.808	-1.143
#2	-.0171	.1366	2.070	-23.67
#3	.5391	.0867	1.366	-6.355

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7270.6	44669.	9139.2
Stddev	29.1	165.	8.3
%RSD	.40007	.37037	.09128
#1	7254.3	44518.	9148.7
#2	7304.2	44846.	9133.1
#3	7253.3	44644.	9135.8

Sample Name: 460-156914-a-4-g@4 Acquired: 6/1/2018 3:28:48 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10830.	3.833	-7.659	69.45	1.424	16670.
Stddev	23.	.842	.1110	.47	.017	104.
%RSD	.2125	21.97	14.49	.6799	1.178	.6250

#1	10850.	3.252	-.6381	68.90	1.432	16650.
#2	10810.	4.799	-.8217	69.70	1.405	16780.
#3	10820.	3.448	-.8378	69.73	1.436	16580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.967	15.09	13.22	33.52	63590.	3164.
Stddev	.200	.25	.20	.38	209.	13.
%RSD	10.18	1.640	1.507	1.134	.3284	.3964

#1	-2.121	14.81	13.24	33.09	63640.	3166.
#2	-2.039	15.30	13.01	33.65	63770.	3150.
#3	-1.741	15.15	13.40	33.82	63360.	3175.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6086.	615.8	519.9	10.29	5.855	-4.473
Stddev	69.	2.1	6.5	.56	.784	1.225
%RSD	1.139	.3331	1.252	5.401	13.38	27.37

#1	6016.	615.4	526.9	9.795	5.518	-5.171
#2	6154.	618.0	514.1	10.89	6.751	-3.060
#3	6089.	614.0	518.5	10.19	5.296	-5.190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-4-g@4 Acquired: 6/1/2018 3:28:48 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.068	-1.499	32.95	112.7	9.999	2.332
Stddev	1.804	1.754	.38	.7	.163	.175
%RSD	58.80	117.0	1.138	.6049	1.625	7.505

#1	-2.826	-2.065	32.79	112.0	9.819	2.170
#2	-1.397	.4687	32.68	113.3	10.13	2.308
#3	-4.981	-2.900	33.37	112.9	10.04	2.517

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.394	20.18	921.0	516.2
Stddev	.423	.21	2.0	18.1
%RSD	9.621	1.018	.2168	3.502

#1	3.954	20.28	919.6	501.3
#2	4.429	19.95	920.1	511.0
#3	4.798	20.32	923.3	536.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7711.4	47084.	9635.0
Stddev	25.8	550.	174.2
%RSD	.33443	1.1684	1.8076

#1	7684.4	46680.	9509.3
#2	7714.1	46862.	9561.8
#3	7735.8	47710.	9833.8

Sample Name: 460-156914-a-5-e@4 Acquired: 6/1/2018 3:32:42 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57310.	1.054	-1.299	66.85	3.135	52020.
Stddev	677.	1.127	.195	.18	.064	552.
%RSD	1.182	106.9	15.01	.2683	2.029	1.061

#1	58090.	2.322	-1.504	67.01	3.208	52530.
#2	57040.	.1668	-1.279	66.88	3.090	51430.
#3	56820.	.6744	-1.115	66.66	3.108	52100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.030	80.06	74.72	497.6	128000.	938.6
Stddev	.049	.64	.70	1.4	952.	12.2
%RSD	1.615	.8039	.9305	.2798	.7431	1.302

#1	-2.975	80.46	75.19	499.2	128800.	940.8
#2	-3.069	80.40	73.92	496.7	127000.	949.6
#3	-3.046	79.32	75.05	496.9	128300.	925.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	60980.	1608.	5180.	177.6	8.478	-10.14
Stddev	402.	11.	57.	1.1	.652	1.22
%RSD	.6585	.6901	1.100	.6390	7.695	12.06

#1	61300.	1618.	5240.	178.6	9.045	-10.19
#2	60530.	1596.	5173.	177.9	8.624	-8.892
#3	61120.	1611.	5127.	176.4	7.765	-11.33

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-5-e@4 Acquired: 6/1/2018 3:32:42 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.254	-3.760	239.7	166.5	1115.	1.564
Stddev	.783	3.632	1.8	.7	13.	.110
%RSD	24.06	96.58	.7559	.4131	1.205	7.044

#1	-2.351	.4005	241.4	166.7	1118.	1.668
#2	-3.744	-5.386	237.8	167.1	1127.	1.448
#3	-3.667	-6.294	239.9	165.8	1100.	1.576

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.940	127.2	7152.	539.9
Stddev	.288	1.3	24.	21.4
%RSD	3.628	.9939	.3324	3.958

#1	7.612	128.6	7177.	515.3
#2	8.056	126.6	7129.	552.1
#3	8.152	126.3	7152.	552.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7137.7	43738.	8923.1
Stddev	21.0	344.	220.8
%RSD	.29435	.78648	2.4740

#1	7119.9	43367.	8685.7
#2	7132.4	44047.	8961.5
#3	7160.9	43800.	9122.1

Sample Name: 460-156914-a-9-e@4 Acquired: 6/1/2018 3:36:38 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	79280.	.8692	-1.555	100.8	4.153	77410.
Stddev	119.	1.333	.469	.1	.042	918.
%RSD	.1503	153.3	30.19	.0799	1.017	1.186

#1	79320.	.8059	-1.910	100.9	4.139	76380.
#2	79140.	2.232	-1.731	100.8	4.119	77700.
#3	79370.	-.4307	-1.023	100.7	4.200	78140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.232	108.7	179.4	677.7	175700.	872.0
Stddev	.421	1.0	2.4	2.5	1513.	9.6
%RSD	9.950	.9245	1.354	.3687	.8611	1.099

#1	-3.810	108.5	176.7	678.1	174000.	860.9
#2	-4.235	109.8	180.3	675.0	176200.	877.8
#3	-4.652	107.8	181.3	680.0	177000.	877.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	80460.	2781.	3875.	206.2	15.11	-14.33
Stddev	806.	23.	11.	.4	.84	.73
%RSD	1.002	.8336	.2808	.1887	5.571	5.088

#1	79550.	2756.	3887.	206.0	14.22	-13.77
#2	80750.	2787.	3874.	206.6	15.22	-14.07
#3	81090.	2801.	3865.	205.9	15.89	-15.16

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-9-e@4 Acquired: 6/1/2018 3:36:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.728	-2.747	356.4	210.5	F 2177.	.8506
Stddev	2.932	1.268	2.1	4.6	4.	.2020
%RSD	37.94	46.16	.5899	2.173	.1685	23.75
#1	-7.431	-1.411	354.3	205.5	2180.	1.042
#2	-10.80	-2.895	356.5	214.6	2178.	.6396
#3	-4.956	-3.934	358.5	211.2	2173.	.8701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					2000.	
Low Limit					-50.00	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.652	151.1	9156.	723.0
Stddev	.072	.1	26.	14.7
%RSD	.7512	.0729	.2839	2.027
#1	9.609	151.1	9136.	739.9
#2	9.611	150.9	9147.	713.4
#3	9.736	151.1	9185.	715.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7061.3	43475.	9088.8
Stddev	55.7	90.	2.8
%RSD	.78931	.20745	.03041
#1	7020.2	43517.	9085.8
#2	7039.0	43371.	9091.3
#3	7124.7	43536.	9089.2

Sample Name: CCB Acquired: 5/31/2018 23:43:27 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.863	.2354	.2011	.4294	.0265	15.84
Stddev	6.228	.9817	.2619	.4964	.0633	8.65
%RSD	128.1	417.1	130.2	115.6	239.1	54.59
#1	11.28	1.367	.4863	.9956	.0987	25.82
#2	-1.159	-.3890	-.0285	.0691	.0001	10.53
#3	4.470	-.2718	.1455	.2233	-.0194	11.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0704	-.0171	.1922	1.257	13.46	2.033
Stddev	.0840	.0616	.3825	.802	13.21	19.35
%RSD	119.3	359.5	199.0	63.83	98.19	951.7
#1	.1019	-.0664	.2400	2.161	27.51	24.37
#2	.1343	.0519	-.2119	.9842	11.59	-8.631
#3	-.0248	-.0369	.5486	.6269	1.275	-9.637

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.494	.3536	19.94	.2030	-.5694	.2325
Stddev	6.546	.3438	5.07	.4181	.3780	.6872
%RSD	262.5	97.22	25.44	205.9	66.38	295.5
#1	7.808	.7487	25.70	.6511	-.1861	.6471
#2	-4.819	.1896	16.17	.1348	-.9419	-.5606
#3	4.492	.1226	17.94	-.1768	-.5803	.6112

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 5/31/2018 23:43:27 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.8188	2.785	.0474	-0.5319	2.524	1.129
Stddev	1.289	1.132	.2745	.1038	.885	.751
%RSD	157.4	40.66	579.6	19.52	35.07	66.50
#1	-2.275	1.564	.3465	-.4297	2.985	1.926
#2	.1758	3.801	-.0115	-.5286	3.083	1.025
#3	-.3571	2.990	-.1929	-.6373	1.503	.4353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0414	.2205	2.926	2.428
Stddev	.2818	.3107	1.845	20.53
%RSD	681.2	140.9	63.06	845.5
#1	.3110	.5710	5.005	-21.04
#2	.0644	.1110	2.291	11.30
#3	-.2513	-.0206	1.482	17.03

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7215.1	44720.	9058.2
Stddev	65.7	409.	36.3
%RSD	.91085	.91520	.40106
#1	7289.4	44990.	9077.2
#2	7164.9	44921.	9016.3
#3	7190.8	44249.	9081.1

Sample Name: 460-156904-f-2-d@4 Acquired: 5/31/2018 23:55:16 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17140.	7.301	-.6431	180.4	1.556	199300.
Stddev	176.	1.025	.2293	.5	.023	1939.
%RSD	1.024	14.04	35.65	.2544	1.459	.9729

#1	17340.	6.118	-.8703	180.9	1.561	201400.
#2	17080.	7.907	-.6471	180.3	1.531	197500.
#3	17000.	7.878	-.4118	180.1	1.576	199100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4291	19.79	62.47	44.01	47260.	3164.
Stddev	.1389	.17	.44	.77	422.	51.
%RSD	32.37	.8731	.7022	1.738	.8921	1.615

#1	-.5894	19.98	62.97	44.76	47710.	3223.
#2	-.3454	19.74	62.13	43.23	46880.	3138.
#3	-.3524	19.64	62.32	44.05	47190.	3131.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	109200.	1762.	946.3	49.28	12.45	-3.185
Stddev	1167.	18.	17.3	.48	1.25	2.238
%RSD	1.069	1.023	1.831	.9795	10.07	70.28

#1	110400.	1782.	966.2	49.78	13.64	-1.451
#2	108100.	1746.	934.5	49.24	11.14	-5.712
#3	109000.	1759.	938.2	48.82	12.56	-2.392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156904-f-2-d@4 Acquired: 5/31/2018 23:55:16 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.028	-1.174	76.80	98.62	14.43	1.501
Stddev	1.498	2.367	1.48	2.23	.74	.163
%RSD	49.46	201.7	1.923	2.259	5.101	10.86
#1	-3.854	.6110	76.77	97.51	14.08	1.315
#2	-3.931	-.2731	75.33	97.16	13.94	1.568
#3	-1.299	-3.859	78.29	101.2	15.28	1.620

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.189	133.5	1284.	2783.
Stddev	.071	1.8	14.	46.
%RSD	3.239	1.331	1.092	1.641
#1	2.175	135.5	1300.	2834.
#2	2.125	132.9	1274.	2769.
#3	2.265	132.1	1277.	2746.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6844.2	43007.	9078.5
Stddev	26.0	436.	93.0
%RSD	.37965	1.0134	1.0243
#1	6817.5	42556.	8972.0
#2	6845.8	43426.	9120.2
#3	6869.3	43039.	9143.4

Sample Name: CCV Acquired: 5/31/2018 23:39:44 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121800.	2445.	1203.	10100.	977.9	121700.
Stddev	1539.	23.	17.	84.	14.4	1877.
%RSD	1.264	.9312	1.454	.8269	1.468	1.542

#1	120700.	2443.	1190.	10060.	968.2	120300.
#2	123500.	2469.	1223.	10200.	994.4	123900.
#3	121000.	2424.	1195.	10050.	971.2	121100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1238.	2510.	4914.	12110.	97950.	48220.
Stddev	10.	21.	82.	165.	1571.	605.
%RSD	.8131	.8254	1.662	1.359	1.604	1.256

#1	1232.	2501.	4858.	12010.	96790.	47780.
#2	1249.	2533.	5008.	12300.	99730.	48910.
#3	1232.	2495.	4875.	12020.	97320.	47970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121400.	5081.	124300.	2534.	7496.	966.7
Stddev	1830.	73.	1568.	24.	63.	8.1
%RSD	1.507	1.429	1.262	.9484	.8448	.8356

#1	120300.	5027.	123200.	2523.	7468.	965.3
#2	123500.	5163.	126100.	2561.	7568.	975.4
#3	120500.	5052.	123500.	2517.	7451.	959.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 5/31/2018 23:39:44 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2437.	2524.	2458.	2505.	964.9	2436.
Stddev	23.	20.	35.	26.	8.2	19.
%RSD	.9245	.7866	1.416	1.036	.8447	.7899

#1	2427.	2519.	2433.	2491.	962.7	2427.
#2	2463.	2545.	2497.	2535.	973.9	2459.
#3	2421.	2506.	2443.	2489.	958.1	2424.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	996.7	4923.	9892.	9441.
Stddev	8.0	59.	192.	88.
%RSD	.8074	1.201	1.936	.9332

#1	993.5	4894.	9817.	9477.
#2	1006.	4991.	10110.	9506.
#3	990.7	4884.	9749.	9341.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6711.6	41727.	8840.0
Stddev	47.2	475.	139.1
%RSD	.70374	1.1393	1.5737

#1	6723.3	42035.	8973.5
#2	6659.6	41179.	8695.9
#3	6751.9	41966.	8850.5

Sample Name: CCV Acquired: 6/1/2018 3:56:03 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	130000.	2603.	1275.	10530.	1043.	129000.
Stddev	1141.	3.	6.	80.	11.	1405.
%RSD	.8779	.0994	.5096	.7617	1.081	1.089

#1	129100.	2601.	1271.	10440.	1032.	127400.
#2	129600.	2606.	1272.	10590.	1042.	129600.
#3	131300.	2603.	1283.	10560.	1054.	130000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1334.	2600.	5333.	13060.	104500.	51560.
Stddev	7.	14.	39.	54.	872.	507.
%RSD	.5062	.5204	.7387	.4114	.8348	.9826

#1	1327.	2584.	5288.	13030.	103600.	51100.
#2	1339.	2608.	5345.	13030.	104700.	51480.
#3	1337.	2607.	5364.	13120.	105300.	52100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128200.	5456.	131600.	2666.	7727.	1035.
Stddev	850.	42.	1247.	18.	51.	4.
%RSD	.6624	.7640	.9475	.6802	.6587	.4031

#1	127300.	5411.	130600.	2645.	7669.	1031.
#2	128500.	5465.	131300.	2678.	7762.	1036.
#3	129000.	5493.	133000.	2674.	7751.	1039.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 3:56:03 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2546.	2598.	2584.	2704.	1023.	2551.
Stddev	12.	10.	17.	20.	4.	15.
%RSD	.4596	.3938	.6715	.7267	.3852	.5949

#1	2535.	2586.	2566.	2682.	1019.	2534.
#2	2545.	2605.	2585.	2718.	1024.	2559.
#3	2559.	2603.	2601.	2712.	1027.	2560.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1038.	5210.	10090.	9679.
Stddev	6.	34.	44.	79.
%RSD	.5851	.6506	.4339	.8199

#1	1031.	5203.	10050.	9770.
#2	1040.	5181.	10100.	9635.
#3	1043.	5247.	10130.	9630.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6548.2	40042.	8310.9
Stddev	14.4	157.	185.2
%RSD	.21986	.39119	2.2289

#1	6553.0	40131.	8503.8
#2	6559.6	40133.	8294.4
#3	6532.0	39861.	8134.4

Sample Name: CCVL Acquired: 6/1/2018 4:03:45 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	178.0	14.53	8.537	186.4	1.779	4427.
Stddev	8.1	1.15	.229	.8	.059	33.
%RSD	4.551	7.903	2.687	.4484	3.342	.7547

#1	179.5	15.85	8.508	187.2	1.839	4459.
#2	169.3	13.93	8.779	185.5	1.721	4431.
#3	185.3	13.80	8.323	186.5	1.778	4392.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.821	46.36	11.01	21.01	161.9	4172.
Stddev	.086	.13	.30	.23	6.1	64.
%RSD	2.251	.2813	2.726	1.118	3.794	1.537

#1	3.723	46.45	11.27	21.17	161.9	4231.
#2	3.858	46.21	11.06	21.11	168.1	4104.
#3	3.883	46.41	10.68	20.74	155.8	4180.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4423.	15.19	4225.	39.51	9.203	19.32
Stddev	88.	.39	21.	.07	.388	.80
%RSD	1.997	2.591	.4871	.1834	4.215	4.163

#1	4525.	15.64	4245.	39.51	9.108	19.90
#2	4373.	14.88	4204.	39.59	9.630	19.66
#3	4370.	15.06	4226.	39.44	8.872	18.40

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 4:03:45 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.97	22.02	45.16	30.50	43.74	18.15
Stddev	1.80	.66	.73	.08	.21	.36
%RSD	10.61	3.017	1.618	.2542	.4833	1.971
#1	19.00	22.22	45.98	30.41	43.75	18.43
#2	15.54	21.28	44.94	30.57	43.96	18.28
#3	16.38	22.56	44.57	30.51	43.53	17.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.08	17.77	19.29	F -8.567
Stddev	.55	.26	.36	5.777
%RSD	1.226	1.450	1.882	67.43
#1	45.58	18.07	19.71	-5.734
#2	44.49	17.58	19.07	-15.21
#3	45.16	17.67	19.08	-4.754

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7184.3	43230.	8880.4
Stddev	12.5	227.	42.5
%RSD	.17443	.52622	.47912
#1	7177.1	42970.	8861.6
#2	7198.8	43323.	8929.1
#3	7177.1	43395.	8850.4

Sample Name: 460-156914-a-20-h@4 Acquired: 6/1/2018 4:19:13 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24160.	2.808	-1.130	102.2	1.910	32390.
Stddev	28.	2.541	.265	.4	.066	146.
%RSD	.1148	90.49	23.46	.3493	3.444	.4517
#1	24190.	3.031	-1.125	101.8	1.935	32370.
#2	24150.	.1633	-1.397	102.5	1.960	32250.
#3	24130.	5.231	-.8669	102.3	1.835	32540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.485	37.01	30.35	188.0	80670.	2620.
Stddev	.045	.06	.27	.5	365.	33.
%RSD	1.819	.1713	.8898	.2882	.4525	1.272
#1	-2.513	37.06	30.11	187.4	80620.	2599.
#2	-2.433	36.94	30.64	188.3	80340.	2658.
#3	-2.509	37.04	30.30	188.4	81060.	2603.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22930.	803.6	1852.	62.88	8.757	-6.458
Stddev	119.	2.4	8.	.15	.668	.043
%RSD	.5198	.3047	.4353	.2369	7.629	.6624
#1	22900.	803.8	1861.	62.99	9.526	-6.433
#2	22830.	801.1	1846.	62.93	8.415	-6.434
#3	23070.	806.0	1850.	62.71	8.329	-6.507

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-20-h@4 Acquired: 6/1/2018 4:19:13 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.721	-2.137	89.37	99.85	841.4	1.647
Stddev	1.325	2.621	.21	2.52	22.8	.106
%RSD	35.62	122.6	.2375	2.520	2.703	6.422
#1	-5.233	-4.639	89.33	99.41	836.7	1.742
#2	-2.764	-2.361	89.18	102.6	866.1	1.664
#3	-3.165	.5889	89.60	97.58	821.4	1.533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.905	57.36	2903.	685.9
Stddev	.586	.11	9.	23.3
%RSD	9.929	.1879	.2969	3.403
#1	5.242	57.46	2904.	663.5
#2	6.353	57.25	2893.	684.0
#3	6.122	57.37	2910.	710.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7489.0	45672.	9324.4
Stddev	35.2	354.	122.0
%RSD	.47039	.77614	1.3081
#1	7452.0	45264.	9199.1
#2	7493.1	45848.	9331.5
#3	7522.1	45904.	9442.7

Sample Name: 460-156914-a-17-h@4 Acquired: 6/1/2018 4:07:43 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15120.	7.798	-1.183	107.7	1.517	17620.
Stddev	297.	2.288	.461	1.3	.043	326.
%RSD	1.961	29.34	38.93	1.191	2.806	1.848

#1	15450.	8.516	-1.661	108.3	1.566	17930.
#2	14860.	9.641	-1.148	106.2	1.487	17280.
#3	15060.	5.238	-.7411	108.5	1.499	17650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.913	15.18	36.48	44.94	63500.	5155.
Stddev	.198	.15	.56	.77	1207.	90.
%RSD	10.37	.9868	1.540	1.710	1.900	1.752

#1	-2.118	15.33	36.95	45.68	64730.	5245.
#2	-1.897	15.03	35.86	44.15	62320.	5065.
#3	-1.723	15.19	36.64	45.00	63450.	5155.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9476.	628.9	465.7	25.69	42.05	-3.944
Stddev	192.	11.5	10.9	.40	.25	1.245
%RSD	2.026	1.828	2.345	1.565	.5978	31.56

#1	9667.	641.2	477.2	26.12	41.87	-5.359
#2	9283.	618.5	455.5	25.32	41.96	-3.022
#3	9479.	626.9	464.4	25.64	42.34	-3.450

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-17-h@4 Acquired: 6/1/2018 4:07:43 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.881	-1.714	68.86	110.9	19.63	5.712
Stddev	1.969	2.345	.98	.8	.50	.576
%RSD	40.34	136.8	1.423	.6886	2.558	10.09
#1	-6.682	-1.037	69.57	111.4	20.18	6.358
#2	-2.779	-4.323	67.74	110.1	19.50	5.249
#3	-5.183	.2173	69.26	111.4	19.21	5.530

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.405	25.46	1172.	711.5
Stddev	.656	.55	25.	10.2
%RSD	8.862	2.176	2.096	1.437
#1	7.756	26.10	1198.	703.0
#2	6.648	25.16	1150.	722.9
#3	7.811	25.13	1166.	708.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7763.0	47267.	9640.5
Stddev	87.2	1007.	166.2
%RSD	1.1231	2.1295	1.7239
#1	7663.4	46107.	9449.2
#2	7800.3	47788.	9749.8
#3	7825.4	47907.	9722.4

Sample Name: pds 460-156908-a-1-j Acquired: 6/1/2018 0:06:53 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1908.	1944.	47.08	2129.	48.09	31340.
Stddev	21.	8.	.50	4.	.27	122.
%RSD	1.084	.4370	1.063	.1829	.5688	.3887

#1	1927.	1936.	47.62	2125.	48.36	31340.
#2	1911.	1953.	46.63	2133.	47.81	31230.
#3	1886.	1942.	46.99	2129.	48.11	31470.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.78	514.0	203.8	252.9	961.9	19400.
Stddev	.31	1.1	1.5	.5	17.0	80.
%RSD	.6129	.2090	.7586	.1878	1.766	.4131

#1	50.64	512.9	205.2	252.5	980.3	19460.
#2	50.56	514.2	202.2	252.9	958.8	19310.
#3	51.13	515.0	204.2	253.4	946.7	19430.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19420.	839.2	F 293300.	507.2	508.5	473.4
Stddev	122.	1.7	238.	1.3	1.0	5.3
%RSD	.6266	.2003	.0813	.2652	.1924	1.113

#1	19470.	839.7	293400.	505.9	507.7	471.9
#2	19280.	837.4	293100.	507.2	508.2	479.3
#3	19510.	840.7	293500.	508.6	509.6	469.1

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: pds 460-156908-a-1-j Acquired: 6/1/2018 0:06:53 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2008.	2094.	508.1	599.6	562.8	505.4
Stddev	11.	7.	2.5	2.9	2.4	1.5
%RSD	.5625	.3476	.4872	.4916	.4214	.2983
#1	2006.	2087.	508.2	597.6	563.2	503.7
#2	2020.	2102.	505.5	598.3	565.0	506.5
#3	1998.	2092.	510.5	603.0	560.3	505.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	507.9	545.6	509.6	725.9
Stddev	1.7	1.8	2.1	10.7
%RSD	.3419	.3385	.4028	1.477
#1	506.2	546.5	510.9	720.9
#2	507.7	543.5	507.2	738.2
#3	509.7	546.9	510.6	718.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6818.1	41840.	8947.8
Stddev	13.4	120.	149.1
%RSD	.19625	.28567	1.6660
#1	6818.2	41761.	8776.0
#2	6804.8	41978.	9024.7
#3	6831.5	41782.	9042.8

Sample Name: Z 460-156778-f-1-b Acquired: 6/1/2018 4:30:54 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	[^] *****	k 11.96	k -.9842	k 805.3	s 3.571	4841.
Stddev	-----	8.07	.5958	697.1	3.323	4094.
%RSD	-----	67.49	60.54	86.56	93.04	84.57

#1	s 65.23	k 2.642	k -.3166	k .4601	s .0128	155.6
#2	[^] -----	16.81	-1.174	1201.	4.108	6640.
#3	67430.	16.42	-1.462	1214.	6.593	7726.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k -2.529	k 59.13	k 100.3	k 34.62	k 107800.	s 6698.
Stddev	3.067	51.40	87.8	35.16	94230.	6609.
%RSD	121.3	86.93	87.47	101.6	87.39	98.67

#1	k .1560	k -.2187	k -.0840	k -5.529	k 2.0	s -206.0
#2	-1.870	88.28	138.7	49.49	149100.	7334.
#3	-5.872	89.34	162.3	59.92	174400.	12970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 22060.	k 3065.	s 285.2	k 137.3	k 63.89	k -5.535
Stddev	19270.	2680.	359.4	118.5	55.14	4.628
%RSD	87.36	87.42	126.0	86.26	86.30	83.61

#1	k -1.34	k .092	s -93.09	k .5525	k .3442	k -.3298
#2	k 30570.	4231.	326.4	204.5	k 92.30	-7.090
#3	35610.	4964.	622.2	206.9	99.04	-9.185

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: Z 460-156778-f-1-b Acquired: 6/1/2018 4:30:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k -4.862	k 1.128	k 108.2	k 308.6	k 41.57	k 2.655
Stddev	1.619	2.842	94.8	268.0	51.13	2.574
%RSD	33.29	251.9	87.64	86.83	123.0	96.95

#1	k -5.853	k 4.409	k -.1255	k -.7921	k -17.42	k -.3171
#2	-2.994	-.4784	148.5	461.9	68.87	4.104
#3	-5.740	-.5467	176.2	464.8	73.25	4.178

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	k 4.137	s 32.43	k 1196.	k 565.3
Stddev	3.763	31.84	1046.	989.2
%RSD	90.95	98.20	87.47	175.0

#1	k -.1869	s -.4647	k .584	k -539.7
#2	5.932	34.64	1644.	867.2
#3	6.666	63.11	1945.	1368.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	14312.	73079.	^ *****
Stddev	11913.	45930.	-----
%RSD	83.236	62.850	-----

#1	28067.	126070.	^ -----
#2	7464.8	48462.	11616.
#3	7403.5	44706.	9165.2

Sample Name: 460-156914-b-21-e@4 Acquired: 6/1/2018 4:23:02 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54080.	1.402	-1.057	209.1	3.315	75620.
Stddev	232.	.656	.191	.6	.078	738.
%RSD	.4293	46.84	18.12	.2647	2.362	.9755

#1	54140.	2.110	-1.118	209.7	3.398	76400.
#2	53830.	.8130	-.8419	209.2	3.305	74940.
#3	54280.	1.282	-1.210	208.6	3.243	75520.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.499	76.07	68.54	443.2	125500.	1191.
Stddev	.206	.58	.44	.9	1426.	37.
%RSD	5.874	.7610	.6413	.2045	1.137	3.089

#1	-3.691	76.65	68.72	442.5	127000.	1232.
#2	-3.282	75.50	68.04	442.9	124200.	1181.
#3	-3.525	76.06	68.87	444.3	125100.	1161.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62750.	1543.	4197.	181.4	9.118	-10.88
Stddev	672.	18.	31.	1.9	1.646	.90
%RSD	1.071	1.160	.7386	1.052	18.05	8.273

#1	63510.	1563.	4188.	183.6	7.453	-11.71
#2	62210.	1528.	4172.	180.5	10.74	-9.922
#3	62540.	1539.	4232.	180.1	9.155	-11.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-b-21-e@4 Acquired: 6/1/2018 4:23:02 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.999	-2.473	225.8	138.3	F 2528.	1.390
Stddev	2.441	.558	1.5	1.0	15.	.316
%RSD	40.68	22.57	.6765	.7491	.5795	22.77
#1	-4.923	-3.034	227.2	139.5	2544.	1.096
#2	-8.793	-1.918	224.2	137.5	2520.	1.725
#3	-4.282	-2.468	225.9	138.0	2519.	1.348
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					2000.	
Low Limit					-50.00	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.816	125.3	7202.	635.3
Stddev	.336	.9	101.	5.1
%RSD	4.295	.7341	1.406	.7966
#1	7.923	125.9	7316.	633.2
#2	7.440	125.8	7168.	641.0
#3	8.085	124.3	7122.	631.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7073.4	43046.	8851.3
Stddev	105.7	950.	113.8
%RSD	1.4942	2.2076	1.2852
#1	6952.1	41949.	8720.7
#2	7122.3	43559.	8929.2
#3	7145.8	43629.	8903.8

Sample Name: 460-156908-a-1-l.ms Acquired: 6/1/2018 0:10:39 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1010.	1033.	97.39	2250.	204.2	16010.
Stddev	15.	3.	.95	13.	1.0	103.
%RSD	1.500	.3377	.9718	.5877	.4772	.6428

#1	1020.	1037.	98.27	2265.	205.3	16120.
#2	992.6	1031.	96.39	2242.	203.5	15930.
#3	1018.	1030.	97.51	2243.	203.7	15970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	219.2	218.8	1079.	217.2	226.5	4425.
Stddev	1.5	1.3	7.	2.6	10.9	59.
%RSD	.6671	.6103	.6916	1.214	4.792	1.339

#1	220.7	220.3	1086.	220.1	220.8	4486.
#2	217.8	217.9	1071.	215.0	239.0	4420.
#3	219.0	218.1	1079.	216.5	219.7	4368.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4879.	550.7	F 275100.	223.9	1083.	211.2
Stddev	39.	4.4	1310.	1.1	8.	1.8
%RSD	.8008	.8040	.4761	.4967	.7176	.8510

#1	4922.	555.8	274700.	225.2	1091.	213.3
#2	4869.	547.6	276500.	223.1	1077.	210.5
#3	4846.	548.7	274000.	223.4	1079.	209.9

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-1-l.ms Acquired: 6/1/2018 0:10:39 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	216.4	226.8	108.4	308.6	290.9	219.7
Stddev	1.8	2.9	.7	1.1	3.4	1.6
%RSD	.8116	1.293	.6251	.3468	1.161	.7101
#1	218.1	227.3	109.1	309.5	294.3	221.5
#2	214.6	229.4	107.8	307.4	287.5	218.8
#3	216.5	223.6	108.3	309.0	290.7	218.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	215.9	270.6	214.6	755.4
Stddev	1.5	1.6	2.5	20.0
%RSD	.7103	.5771	1.148	2.653
#1	217.7	272.4	217.3	778.0
#2	215.3	269.8	212.6	748.3
#3	214.8	269.6	213.7	739.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6793.6	41911.	9119.4
Stddev	51.6	375.	14.5
%RSD	.75967	.89538	.15917
#1	6734.5	41478.	9120.9
#2	6829.9	42100.	9133.1
#3	6816.4	42153.	9104.2

Sample Name: lcs 460-523775/2-a Acquired: 6/1/2018 4:42:16 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1875.	1944.	47.16	2018.	47.44	19520.
Stddev	28.	13.	.47	7.	.43	167.
%RSD	1.478	.6452	1.005	.3395	.9062	.8542

#1	1904.	1946.	47.70	2016.	47.48	19710.
#2	1873.	1930.	46.85	2012.	47.85	19410.
#3	1849.	1955.	46.92	2026.	46.99	19440.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.73	507.1	208.5	238.8	985.7	18390.
Stddev	.21	1.2	.5	.3	9.0	67.
%RSD	.3973	.2461	.2327	.1400	.9152	.3640

#1	52.54	507.3	209.1	239.0	983.5	18330.
#2	52.70	505.8	208.2	238.9	977.9	18460.
#3	52.96	508.3	208.3	238.4	995.6	18380.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19440.	522.5	18970.	514.9	511.7	449.1
Stddev	150.	2.5	55.	2.1	3.4	3.4
%RSD	.7730	.4797	.2884	.4063	.6729	.7662

#1	19620.	525.2	18960.	514.1	512.9	445.5
#2	19340.	520.3	19030.	513.3	507.8	449.5
#3	19380.	521.9	18920.	517.2	514.4	452.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: lcs 460-523775/2-a Acquired: 6/1/2018 4:42:16 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2029.	2182.	495.1	546.9	511.2	489.2
Stddev	6.	10.	1.6	1.8	1.1	3.0
%RSD	.3081	.4535	.3193	.3361	.2125	.6145

#1	2023.	2179.	493.3	548.6	510.2	487.7
#2	2029.	2174.	496.1	545.0	511.1	487.2
#3	2035.	2193.	495.9	547.2	512.4	492.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	506.2	474.4	477.5	202.4
Stddev	1.9	1.7	.8	15.4
%RSD	.3718	.3518	.1595	7.614

#1	506.4	472.5	478.2	215.9
#2	504.2	475.8	476.7	205.8
#3	508.0	474.8	477.7	185.6

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7223.6	43529.	8933.9
Stddev	34.9	156.	30.6
%RSD	.48263	.35948	.34248

#1	7257.4	43648.	8951.2
#2	7225.5	43588.	8898.6
#3	7187.8	43352.	8952.0

Sample Name: CCV Acquired: 6/1/2018 4:45:56 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124300.	2543.	1232.	10170.	995.1	123600.
Stddev	3113.	100.	42.	408.	24.7	3822.
%RSD	2.504	3.946	3.394	4.008	2.482	3.091

#1	122600.	2462.	1199.	9837.	980.8	120400.
#2	122500.	2512.	1219.	10050.	980.8	122600.
#3	127900.	2656.	1279.	10620.	1024.	127900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1297.	2515.	5139.	12650.	100700.	49340.
Stddev	48.	99.	157.	479.	3085.	1204.
%RSD	3.729	3.930	3.052	3.790	3.064	2.441

#1	1255.	2433.	5008.	12280.	98120.	48680.
#2	1285.	2489.	5097.	12480.	99860.	48620.
#3	1350.	2625.	5313.	13190.	104100.	50730.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123600.	5264.	126100.	2588.	7470.	1019.
Stddev	3718.	156.	3050.	101.	289.	43.
%RSD	3.009	2.961	2.418	3.882	3.870	4.206

#1	120500.	5135.	124500.	2503.	7233.	986.0
#2	122600.	5219.	124300.	2561.	7385.	1004.
#3	127700.	5437.	129600.	2699.	7792.	1068.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 4:45:56 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2490.	2507.	2487.	2618.	996.7	2476.
Stddev	98.	100.	81.	90.	41.8	97.
%RSD	3.940	3.982	3.275	3.425	4.196	3.929

#1	2409.	2422.	2421.	2542.	961.4	2398.
#2	2462.	2483.	2462.	2595.	985.8	2445.
#3	2599.	2617.	2578.	2716.	1043.	2585.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1006.	5015.	9712.	9431.
Stddev	38.	118.	289.	299.
%RSD	3.729	2.347	2.976	3.167

#1	974.0	4950.	9460.	9181.
#2	996.0	4943.	9648.	9350.
#3	1047.	5151.	10030.	9762.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6630.4	40636.	8612.3
Stddev	168.2	612.	158.1
%RSD	2.5366	1.5065	1.8361

#1	6774.3	41183.	8684.5
#2	6671.5	40750.	8721.4
#3	6445.5	39975.	8430.9

Sample Name: pds 460-157038-k-1-a Acquired: 6/1/2018 4:34:46 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4597.	2063.	49.99	2106.	47.91	204200.
Stddev	54.	10.	.14	7.	.62	2548.
%RSD	1.182	.4677	.2879	.3422	1.285	1.248

#1	4658.	2061.	50.09	2104.	48.57	206700.
#2	4580.	2055.	50.06	2099.	47.36	204300.
#3	4553.	2074.	49.83	2113.	47.78	201600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.10	520.4	220.2	342.1	6689.	42250.
Stddev	.19	2.1	2.0	1.0	48.	490.
%RSD	.3568	.3945	.8903	.2818	.7142	1.161

#1	53.25	521.3	220.9	341.3	6724.	42810.
#2	53.17	518.0	221.8	341.8	6709.	42010.
#3	52.89	521.7	218.0	343.2	6635.	41920.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	118800.	2171.	F 280400.	1254.	494.6	465.8
Stddev	1262.	22.	1301.	.	1.2	5.9
%RSD	1.062	1.025	.4639	.0385	.2366	1.267

#1	120100.	2194.	281900.	1255.	493.6	460.3
#2	118900.	2170.	280100.	1254.	494.3	465.0
#3	117500.	2150.	279300.	1254.	495.8	472.0

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: pds 460-157038-k-1-a Acquired: 6/1/2018 4:34:46 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2119.	2033.	519.4	589.4	569.9	499.5
Stddev	16.	9.	2.7	5.1	5.1	2.7
%RSD	.7647	.4325	.5281	.8669	.9004	.5419
#1	2113.	2035.	521.1	594.8	567.5	498.4
#2	2107.	2023.	520.9	588.8	566.5	497.5
#3	2138.	2040.	516.3	584.7	575.8	502.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	505.6	730.7	822.3	10830.
Stddev	1.8	7.6	5.9	47.
%RSD	.3577	1.044	.7221	.4304
#1	504.6	739.5	827.3	10850.
#2	504.5	726.6	823.9	10780.
#3	507.7	726.0	815.8	10860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6744.2	40869.	8864.3
Stddev	45.2	227.	29.5
%RSD	.67060	.55585	.33250
#1	6791.6	40911.	8832.2
#2	6739.5	40624.	8890.1
#3	6701.5	41073.	8870.6

Sample Name: 460-157038-a-1-a du Acquired: 6/1/2018 5:01:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2515.	2.671	-.2378	85.40	.3197	181800.
Stddev	30.	1.182	.2033	1.25	.0430	2043.
%RSD	1.181	44.25	85.48	1.469	13.45	1.124

#1	2486.	3.819	-.4710	83.99	.2716	179700.
#2	2514.	1.458	-.0975	85.80	.3544	181900.
#3	2546.	2.737	-.1451	86.40	.3330	183800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.503	20.00	11.79	90.74	5669.	22190.
Stddev	.048	.52	.43	1.08	95.	204.
%RSD	3.218	2.596	3.655	1.193	1.675	.9202

#1	1.467	19.47	11.55	89.54	5579.	21970.
#2	1.483	20.03	11.53	91.05	5661.	22230.
#3	1.558	20.51	12.29	91.64	5768.	22370.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	96750.	1627.	F 260100.	765.6	-3.200	-2.794
Stddev	1199.	19.	2749.	22.3	1.467	.866
%RSD	1.239	1.152	1.057	2.912	45.85	30.98

#1	95490.	1607.	257000.	743.6	-1.564	-3.064
#2	96890.	1628.	261200.	764.9	-3.637	-1.825
#3	97870.	1644.	262100.	788.2	-4.400	-3.492

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-157038-a-1-a du Acquired: 6/1/2018 5:01:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.637	4.007	17.40	56.42	57.86	2.580
Stddev	3.074	1.377	.19	1.69	2.85	.152
%RSD	187.8	34.37	1.092	2.991	4.929	5.871
#1	4.839	2.446	17.52	54.99	54.96	2.424
#2	-1.290	4.527	17.18	55.99	57.97	2.727
#3	1.362	5.049	17.49	58.28	60.66	2.589

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2537	243.6	323.0	10490.
Stddev	.2042	2.3	4.1	213.
%RSD	80.46	.9327	1.276	2.035
#1	.4602	241.3	318.4	10250.
#2	.2491	243.9	324.1	10530.
#3	.0520	245.8	326.4	10670.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6733.1	40948.	8853.0
Stddev	116.0	800.	69.7
%RSD	1.7232	1.9534	.78708
#1	6862.1	41805.	8918.5
#2	6700.0	40820.	8860.6
#3	6637.3	40220.	8779.8

Sample Name: CCB Acquired: 6/1/2018 4:49:40 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.44	1.104	-.1416	.8452	.0650	15.05
Stddev	10.51	.338	.3268	.3601	.0727	7.05
%RSD	78.18	30.62	230.7	42.60	111.7	46.84
#1	22.66	.7137	-.3452	1.258	.1454	20.30
#2	15.66	1.309	-.3150	.5985	.0040	17.83
#3	1.999	1.288	.2353	.6787	.0456	7.037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1382	-.0024	.4297	-.5476	12.94	-38.65
Stddev	.0717	.1946	.2328	.5517	9.43	15.77
%RSD	51.93	8001.	54.18	100.7	72.87	40.81
#1	.1310	.1995	.6228	.0008	23.84	-47.84
#2	.2132	-.1888	.4953	-.5412	7.322	-20.44
#3	.0703	-.0180	.1712	-1.103	7.677	-47.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.587	.5579	55.34	.4670	-.4010	1.171
Stddev	6.314	.3340	11.28	.3308	.9352	1.208
%RSD	83.22	59.86	20.37	70.83	233.2	103.1
#1	9.950	.8628	61.44	.7340	.5651	2.238
#2	12.38	.6100	62.26	.5702	-.4661	-.1411
#3	.4330	.2010	42.33	.0970	-1.302	1.418

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 4:49:40 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1545	.3886	.1779	1.339	4.574	1.425
Stddev	2.447	1.132	.1831	.111	1.497	.351
%RSD	1584.	291.2	102.9	8.320	32.72	24.67
#1	-1.930	1.674	-.0172	1.413	2.887	1.818
#2	2.637	-.4589	.2050	1.211	5.091	1.316
#3	-1.170	-.0488	.3460	1.394	5.744	1.141

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.5364	.4356	2.891	11.69
Stddev	.3014	.2685	1.449	19.23
%RSD	56.18	61.64	50.13	164.5
#1	.7258	.7419	4.466	-10.39
#2	.6945	.3237	2.595	20.64
#3	.1889	.2411	1.613	24.82

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7189.0	44199.	8942.9
Stddev	146.6	692.	73.0
%RSD	2.0394	1.5667	.81674
#1	7358.1	44959.	8986.6
#2	7110.3	44034.	8983.6
#3	7098.4	43603.	8858.6

Sample Name: 460-156908-a-1-k du Acquired: 6/1/2018 0:14:30 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	68.88	10.11	.0302	77.60	-.0035	12010.
Stddev	4.15	.59	.1666	.24	.0304	33.
%RSD	6.024	5.834	551.2	.3090	875.9	.2725
#1	70.77	10.06	.2160	77.64	.0096	11980.
#2	64.12	10.72	-.1059	77.35	-.0383	12040.
#3	71.75	9.539	-.0194	77.82	.0182	12020.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0494	.8028	.3554	12.90	24.13	331.4
Stddev	.0714	.1229	.4061	.68	3.49	16.8
%RSD	144.5	15.30	114.3	5.236	14.48	5.072
#1	.0660	.9408	-.0925	12.61	27.53	335.0
#2	.1110	.7053	.4587	12.43	24.31	313.0
#3	-.0288	.7624	.6999	13.68	20.55	346.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	947.0	335.4	F 271600.	2.740	1.081	-.3054
Stddev	5.4	1.4	2332.	.492	1.427	.5539
%RSD	.5720	.4254	.8584	17.95	132.0	181.4
#1	950.5	333.9	273900.	2.971	1.272	-.8613
#2	940.8	335.7	271800.	2.175	-.4322	.2464
#3	949.7	336.7	269200.	3.075	2.403	-.3012

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-1-k du Acquired: 6/1/2018 0:14:30 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3748	-.0347	1.069	76.39	79.85	.1139
Stddev	3.485	.8071	.073	1.04	2.21	.1306
%RSD	930.0	2327.	6.839	1.358	2.761	114.6
#1	-4.339	-.6771	1.143	75.60	78.41	-.0207
#2	2.206	-.2981	1.066	76.00	78.74	.1224
#3	1.009	.8712	.9972	77.56	82.39	.2400

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4462	69.36	.9093	755.1
Stddev	.3762	1.48	.1132	51.6
%RSD	84.30	2.134	12.45	6.835
#1	.2263	67.73	1.018	705.3
#2	.2318	69.71	.9172	751.7
#3	.8806	70.63	.7924	808.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6760.1	41808.	9100.9
Stddev	45.0	91.	59.3
%RSD	.66603	.21693	.65105
#1	6807.8	41910.	9133.3
#2	6754.0	41776.	9032.5
#3	6718.4	41737.	9136.9

Sample Name: 460-157113-e-1-b Acquired: 6/1/2018 5:13:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.492	2.529	.2767	64.94	-.0165	61810.
Stddev	5.262	.599	.1660	.16	.0574	330.
%RSD	61.96	23.69	59.99	.2426	347.8	.5337
#1	14.35	2.462	.2619	65.12	.0433	62160.
#2	4.165	1.966	.1186	64.85	-.0215	61510.
#3	6.962	3.159	.4496	64.85	-.0713	61760.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1453	.2132	.1321	-.3003	4.379	14560.
Stddev	.1526	.1827	.3295	.0376	2.190	129.
%RSD	105.0	85.71	249.4	12.52	50.02	.8884
#1	.3114	.0023	.4426	-.3429	2.160	14690.
#2	.1132	.3245	.1674	-.2865	4.438	14440.
#3	.0113	.3126	-.2136	-.2716	6.539	14550.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15780.	37.31	41110.	5.488	-3.533	-.5868
Stddev	77.	.33	214.	.168	.708	1.209
%RSD	.4859	.8756	.5196	3.057	20.02	206.1
#1	15860.	37.50	41350.	5.476	-2.721	-1.719
#2	15710.	36.94	41070.	5.661	-4.018	-.7282
#3	15760.	37.51	40920.	5.326	-3.860	.6871

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157113-e-1-b Acquired: 6/1/2018 5:13:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.265	4.630	-.0164	3.973	16.28	31.47
Stddev	2.129	.717	.2223	.115	.27	.56
%RSD	94.00	15.49	1356.	2.900	1.651	1.790
#1	-.7334	5.083	-.2175	3.977	15.98	31.30
#2	-1.366	3.803	-.0539	3.856	16.48	31.02
#3	-4.697	5.004	.2223	4.086	16.39	32.10

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.8198	316.3	1.075	9352.
Stddev	.2005	1.1	.082	56.
%RSD	24.46	.3437	7.633	.5934
#1	-.7186	317.5	1.161	9360.
#2	-1.051	316.0	1.068	9403.
#3	-.6901	315.4	.9974	9293.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7145.2	43178.	8938.8
Stddev	25.2	137.	75.7
%RSD	.35331	.31818	.84671
#1	7160.3	43151.	8878.9
#2	7159.2	43326.	9023.8
#3	7116.0	43056.	8913.6

Sample Name: 460-157113-e-1-c.ms Acquired: 6/1/2018 5:17:34 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2005.	2083.	50.25	2172.	49.89	83920.
Stddev	15.	11.	.11	9.	.22	259.
%RSD	.7403	.5471	.2207	.4369	.4423	.3084

#1	1996.	2078.	50.32	2168.	49.99	84040.
#2	1997.	2075.	50.32	2165.	50.04	83620.
#3	2022.	2096.	50.12	2183.	49.63	84100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.78	527.6	219.9	255.9	1021.	34370.
Stddev	.07	1.4	1.0	1.4	2.	137.
%RSD	.1302	.2627	.4510	.5497	.1898	.3974

#1	54.84	527.0	219.7	257.1	1021.	34270.
#2	54.70	526.6	219.0	254.4	1018.	34310.
#3	54.79	529.2	220.9	256.1	1022.	34530.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36870.	582.8	62040.	533.3	525.7	516.8
Stddev	129.	2.0	261.	3.4	1.3	3.3
%RSD	.3491	.3354	.4206	.6377	.2543	.6467

#1	36900.	582.8	61880.	533.6	527.2	514.7
#2	36730.	580.8	61900.	529.7	525.1	515.1
#3	36990.	584.7	62340.	536.5	524.7	520.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157113-e-1-c.ms Acquired: 6/1/2018 5:17:34 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2144.	2230.	524.9	569.3	540.3	544.8
Stddev	14.	10.	3.0	3.0	3.3	3.6
%RSD	.6573	.4325	.5683	.5328	.6057	.6668

#1	2137.	2225.	523.8	568.4	536.8	541.7
#2	2135.	2224.	522.7	566.9	540.9	543.9
#3	2160.	2241.	528.3	572.7	543.2	548.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	530.5	817.5	504.8	9487.
Stddev	4.2	4.5	2.2	28.
%RSD	.7897	.5547	.4358	.2898

#1	526.2	813.7	504.5	9460.
#2	530.6	816.2	502.8	9487.
#3	534.6	822.5	507.2	9515.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6974.4	41979.	8839.3
Stddev	36.6	174.	46.5
%RSD	.52522	.41463	.52616

#1	7001.7	42130.	8860.9
#2	6988.8	42018.	8871.0
#3	6932.8	41788.	8785.9

Sample Name: sd 460-157038-k-1-a Acquired: 6/1/2018 5:09:41 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	515.2	.5607	-.3452	17.44	.0352	35860.
Stddev	11.5	.6415	.2019	.17	.1121	281.
%RSD	2.228	114.4	58.50	.9928	318.3	.7844

#1	517.9	.9108	-.5782	17.44	.0611	36090.
#2	525.1	.9509	-.2242	17.62	.1322	35940.
#3	502.6	-.1797	-.2330	17.27	-.0876	35540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2692	3.977	2.701	17.20	1190.	4381.
Stddev	.1423	.075	.276	.11	20.	59.
%RSD	52.86	1.894	10.21	.6437	1.721	1.347

#1	.2678	4.044	2.969	17.25	1209.	4431.
#2	.1276	3.992	2.714	17.29	1191.	4395.
#3	.4121	3.895	2.418	17.08	1168.	4316.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18590.	332.2	52140.	158.7	-.5374	.4077
Stddev	125.	2.9	270.	.3	.8014	.9297
%RSD	.6738	.8811	.5170	.1631	149.1	228.1

#1	18670.	334.8	52350.	158.9	.2738	-.1458
#2	18650.	332.8	52240.	158.4	-1.329	1.481
#3	18440.	329.1	51840.	158.7	-.5574	-.1123

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-157038-k-1-a Acquired: 6/1/2018 5:09:41 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.327	2.859	3.676	11.46	12.56	.2902
Stddev	.548	.747	.176	.20	.28	.0336
%RSD	41.31	26.12	4.783	1.745	2.235	11.57
#1	-1.623	2.264	3.878	11.27	12.64	.2717
#2	-1.664	2.615	3.597	11.44	12.24	.3290
#3	-.6946	3.697	3.554	11.67	12.79	.2700

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2460	51.06	68.81	2043.
Stddev	.3070	1.13	.64	50.
%RSD	124.8	2.206	.9234	2.472
#1	-.4837	51.61	69.41	2085.
#2	-.3550	51.80	68.88	2057.
#3	.1006	49.76	68.14	1987.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7085.9	43000.	8930.4
Stddev	37.3	263.	37.8
%RSD	.52704	.61264	.42371
#1	7061.8	42810.	8893.7
#2	7067.0	42888.	8928.2
#3	7128.9	43300.	8969.3

Sample Name: CCV Acquired: 6/1/2018 5:36:59 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	130000.	2608.	1280.	10470.	1044.	129400.
Stddev	501.	22.	9.	115.	3.	858.
%RSD	.3851	.8393	.7369	1.096	.2826	.6634

#1	130500.	2625.	1284.	10560.	1046.	129500.
#2	129900.	2616.	1287.	10520.	1045.	130100.
#3	129500.	2584.	1270.	10340.	1041.	128400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1336.	2589.	5364.	13120.	104900.	51760.
Stddev	14.	29.	39.	103.	635.	147.
%RSD	1.013	1.128	.7311	.7851	.6053	.2835

#1	1346.	2609.	5380.	13200.	105100.	51930.
#2	1341.	2602.	5393.	13160.	105400.	51710.
#3	1320.	2555.	5319.	13010.	104200.	51650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	129100.	5479.	131900.	2657.	7716.	1037.
Stddev	808.	37.	421.	29.	81.	7.
%RSD	.6254	.6812	.3190	1.110	1.045	.6665

#1	129400.	5497.	132300.	2681.	7773.	1042.
#2	129800.	5504.	131900.	2666.	7751.	1039.
#3	128200.	5436.	131500.	2624.	7624.	1029.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 5:36:59 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2549.	2587.	2592.	2704.	1026.	2538.
Stddev	19.	26.	18.	32.	7.	29.
%RSD	.7383	.9900	.7076	1.186	.7219	1.142

#1	2565.	2611.	2603.	2726.	1031.	2557.
#2	2555.	2589.	2603.	2720.	1028.	2552.
#3	2528.	2560.	2571.	2667.	1017.	2504.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1031.	5224.	10090.	9642.
Stddev	12.	26.	82.	74.
%RSD	1.183	.5032	.8146	.7703

#1	1039.	5253.	10150.	9728.
#2	1038.	5220.	10130.	9604.
#3	1017.	5201.	10000.	9595.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6455.0	39155.	8188.4
Stddev	40.8	332.	27.7
%RSD	.63219	.84858	.33789

#1	6412.7	38816.	8180.0
#2	6458.2	39167.	8165.9
#3	6494.1	39480.	8219.3

Sample Name: 460-156871-b-2-a Acquired: 6/1/2018 5:33:04 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67.94	7.438	-.2438	103.3	.0074	F 256400.
Stddev	6.02	1.348	.2126	1.3	.0701	3120.
%RSD	8.866	18.12	87.21	1.306	951.8	1.217
#1	73.11	8.163	-.1235	103.7	.0221	253900.
#2	61.33	5.883	-.1185	104.4	-.0689	259900.
#3	69.38	8.268	-.4892	101.8	.0689	255400.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.60	16.80	-.9803	98.34	954.4	25580.
Stddev	.11	.22	.4137	2.17	19.2	248.
%RSD	1.071	1.309	42.20	2.209	2.012	.9711
#1	10.61	16.76	-.5623	96.48	938.4	25290.
#2	10.71	17.04	-1.389	100.7	975.7	25720.
#3	10.48	16.61	-.9893	97.81	949.0	25720.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42920.	237.9	67720.	65.54	220.5	7.405
Stddev	547.	2.9	610.	1.10	4.3	.406
%RSD	1.274	1.201	.9007	1.671	1.944	5.482
#1	42520.	235.7	67080.	66.01	221.8	7.021
#2	43540.	241.1	68290.	66.33	224.1	7.363
#3	42700.	236.8	67800.	64.29	215.8	7.830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156871-b-2-a Acquired: 6/1/2018 5:33:04 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.815	2.723	.5090	2242.	1740.	97.81
Stddev	.637	1.779	.1818	24.	24.	1.27
%RSD	35.06	65.32	35.72	1.083	1.392	1.304
#1	-1.931	.8852	.4672	2252.	1751.	97.80
#2	-1.129	2.848	.7080	2260.	1757.	99.10
#3	-2.386	4.436	.3517	2215.	1713.	96.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.027	1604.	2.646	7985.
Stddev	.308	14.	.061	81.
%RSD	29.95	.8437	2.326	1.008
#1	.6721	1590.	2.637	7932.
#2	1.185	1617.	2.712	8078.
#3	1.223	1606.	2.590	7945.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6505.5	40326.	8701.5
Stddev	24.6	482.	147.5
%RSD	.37869	1.1949	1.6947
#1	6530.1	40864.	8870.5
#2	6480.8	39934.	8635.1
#3	6505.7	40181.	8598.9

Sample Name: 460-156908-a-1-j@5 Acquired: 6/1/2018 0:18:36 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.732	9.897	.0735	77.45	.0281	11950.
Stddev	11.65	1.896	.3717	.37	.0699	84.
%RSD	119.7	19.16	505.6	.4807	249.0	.7007

#1	14.44	10.32	-.3401	77.04	.0875	11910.
#2	-3.538	11.55	.3796	77.56	.0457	11910.
#3	18.30	7.826	.1810	77.76	-.0490	12050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0524	.9383	.1150	13.01	17.32	340.8
Stddev	.0921	.0778	.0269	.38	2.63	22.7
%RSD	175.5	8.296	23.36	2.911	15.17	6.663

#1	.0872	.8492	.1307	13.40	18.70	329.1
#2	.1220	.9929	.0840	13.01	18.97	326.4
#3	-.0519	.9728	.1304	12.64	14.29	367.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	935.4	334.3	F 272200.	2.814	-.3528	.3174
Stddev	12.8	2.7	2435.	.140	.4782	.9372
%RSD	1.371	.7955	.8946	4.968	135.5	295.2

#1	924.5	332.1	270900.	2.731	-.8667	-.1170
#2	932.1	333.5	270700.	2.975	.0791	1.393
#3	949.5	337.2	275000.	2.735	-.2710	-.3236

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-1-j@5 Acquired: 6/1/2018 0:18:36 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.156	.4859	.6302	76.23	78.40	-.2009
Stddev	1.011	.5496	.3131	.35	.39	.2800
%RSD	87.44	113.1	49.68	.4629	.5015	139.4

#1	-2.112	-.1435	.6585	75.87	78.66	-.1562
#2	-.0983	.7303	.9282	76.58	78.59	.0542
#3	-1.257	.8709	.3039	76.24	77.95	-.5005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4026	69.70	.9226	749.7
Stddev	.1393	.91	.1382	19.9
%RSD	34.59	1.306	14.98	2.648

#1	.5190	68.69	.9093	728.9
#2	.4404	69.93	1.067	768.4
#3	.2483	70.47	.7915	751.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6737.4	41594.	9100.5
Stddev	13.0	178.	111.6
%RSD	.19336	.42781	1.2257

#1	6742.0	41715.	9190.3
#2	6747.5	41677.	9135.4
#3	6722.7	41389.	8975.6

Sample Name: 460-157038-k-2-a Acquired: 6/1/2018 5:21:11 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3320.	4.246	-1.1861	101.4	.2989	173100.
Stddev	48.	1.638	.2595	3.2	.0175	1556.
%RSD	1.453	38.58	139.4	3.196	5.869	.8988

#1	3322.	5.345	-.0759	99.15	.2962	173200.
#2	3271.	2.363	-.4825	99.86	.2829	171500.
#3	3368.	5.029	.0001	105.1	.3176	174600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.110	19.29	16.65	83.52	7380.	22520.
Stddev	.172	.69	.82	1.31	63.	278.
%RSD	15.46	3.586	4.906	1.569	.8546	1.232

#1	1.035	18.73	16.64	82.93	7338.	22580.
#2	.9884	19.08	15.84	82.61	7350.	22220.
#3	1.306	20.07	17.47	85.02	7453.	22770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92710.	1599.	F 271800.	699.7	-3.185	-1.724
Stddev	872.	14.	4342.	22.8	.325	.211
%RSD	.9405	.8968	1.598	3.253	10.20	12.25

#1	92920.	1598.	274100.	678.2	-3.483	-1.902
#2	91750.	1586.	266800.	697.4	-2.839	-1.780
#3	93450.	1615.	274500.	723.5	-3.232	-1.491

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-157038-k-2-a Acquired: 6/1/2018 5:21:11 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.883	2.788	22.14	55.53	62.61	3.447
Stddev	2.310	.129	.29	2.04	2.92	.308
%RSD	59.51	4.618	1.324	3.679	4.657	8.936
#1	4.614	2.769	21.87	53.52	59.97	3.360
#2	5.739	2.671	22.10	55.46	62.12	3.192
#3	1.295	2.926	22.45	57.60	65.74	3.789

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3710	237.7	429.2	11960.
Stddev	.6403	2.9	4.5	285.
%RSD	172.6	1.231	1.047	2.384
#1	.9592	238.4	428.5	11730.
#2	.4650	234.5	425.1	11870.
#3	-.3111	240.2	434.0	12280.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6663.1	40795.	8835.5
Stddev	178.2	319.	99.2
%RSD	2.6738	.78205	1.1233
#1	6816.4	40919.	8868.6
#2	6705.4	41034.	8913.9
#3	6467.7	40433.	8723.9

Sample Name: 460-156936-a-1-a@3 Acquired: 6/1/2018 5:48:40 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	82.93	1.337	.1816	11.43	.0042	1816.
Stddev	6.04	1.073	.1352	.34	.0375	3.
%RSD	7.283	80.23	74.42	3.016	892.0	.1897

#1	79.19	1.226	.0665	11.81	-.0044	1820.
#2	89.90	2.461	.1479	11.33	.0452	1816.
#3	79.70	.3241	.3305	11.14	-.0282	1813.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0865	.0842	5.804	6.490	174.4	1496.
Stddev	.0566	.0882	.132	.225	5.2	55.
%RSD	65.38	104.8	2.280	3.470	2.983	3.652

#1	.0998	.1816	5.920	6.350	180.4	1552.
#2	.0245	.0096	5.660	6.749	171.2	1443.
#3	.1353	.0614	5.833	6.369	171.7	1492.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	306.0	13.46	97530.	8.834	.0464	.9097
Stddev	4.3	.16	481.	.393	.3194	.1998
%RSD	1.393	1.169	.4931	4.453	687.7	21.97

#1	310.9	13.59	98050.	9.288	-.2656	.8087
#2	303.6	13.29	97110.	8.607	.0322	1.140
#3	303.4	13.51	97420.	8.607	.3727	.7805

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156936-a-1-a@3 Acquired: 6/1/2018 5:48:40 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3638	1.065	.3930	1836.	10.76	.7303
Stddev	2.459	1.833	.2212	38.	.75	.3853
%RSD	675.9	172.2	56.27	2.059	6.924	52.76
#1	1.824	3.162	.2443	1874.	11.52	1.103
#2	.1090	.2598	.6472	1836.	10.74	.3333
#3	-3.025	-.2282	.2877	1799.	10.03	.7549

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.094	10.15	1.962	711.6
Stddev	.295	.09	.406	43.9
%RSD	14.10	.8650	20.69	6.163
#1	2.077	10.21	2.426	743.5
#2	1.808	10.19	1.672	729.6
#3	2.398	10.05	1.789	661.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6785.2	41322.	8406.8
Stddev	142.7	426.	75.3
%RSD	2.1025	1.0313	.89545
#1	6620.7	40831.	8350.9
#2	6860.3	41545.	8492.4
#3	6874.6	41591.	8377.1

Sample Name: CCVL Acquired: 6/1/2018 5:44:42 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	172.6	13.81	8.104	185.9	1.718	4410.
Stddev	6.3	1.50	.185	3.1	.057	64.
%RSD	3.626	10.90	2.282	1.692	3.292	1.450

#1	177.5	12.08	8.287	189.1	1.744	4468.
#2	174.8	14.80	7.917	185.8	1.653	4419.
#3	165.5	14.54	8.108	182.8	1.757	4341.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.847	45.92	9.677	20.02	152.9	4172.
Stddev	.074	.75	.313	.20	1.1	2.
%RSD	1.933	1.643	3.235	1.013	.7286	.0455

#1	3.931	46.75	9.352	20.25	152.3	4173.
#2	3.818	45.72	9.977	19.89	152.2	4172.
#3	3.791	45.28	9.702	19.91	154.2	4170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4360.	14.54	4284.	38.65	8.826	18.39
Stddev	76.	.12	65.	.86	.412	.54
%RSD	1.733	.8334	1.523	2.228	4.672	2.912

#1	4415.	14.67	4357.	39.32	8.543	18.21
#2	4392.	14.52	4262.	38.97	9.299	17.96
#3	4274.	14.43	4232.	37.68	8.636	18.99

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 5:44:42 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.08	21.48	44.48	30.50	44.16	17.75
Stddev	2.68	1.14	.85	.66	.77	.38
%RSD	16.64	5.295	1.913	2.156	1.752	2.118
#1	18.85	22.15	45.38	31.24	44.98	18.08
#2	15.87	20.16	44.38	30.27	43.44	17.83
#3	13.52	22.11	43.69	29.99	44.06	17.34

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	44.52	17.58	18.47	F -20.37
Stddev	1.25	.22	.24	6.71
%RSD	2.810	1.240	1.293	32.95
#1	45.88	17.82	18.57	-19.58
#2	44.27	17.39	18.65	-27.44
#3	43.41	17.53	18.20	-14.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7193.8	43563.	8777.8
Stddev	87.9	624.	47.0
%RSD	1.2215	1.4328	.53585
#1	7092.4	42906.	8723.7
#2	7247.9	43633.	8800.1
#3	7241.0	44148.	8809.5

Sample Name: lcs 460-523902/2-a@2 Acquired: 6/1/2018 0:26:40 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2559.	2509.	241.3	5513.	516.4	10460.
Stddev	8.	13.	1.4	30.	1.3	61.
%RSD	.2964	.5372	.5723	.5356	.2495	.5856

#1	2566.	2497.	239.8	5493.	515.6	10410.
#2	2562.	2506.	241.9	5500.	517.9	10440.
#3	2551.	2524.	242.4	5547.	515.8	10530.

Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	555.7	560.6	2750.	507.7	530.0	9851.
Stddev	1.3	2.5	16.	1.0	3.6	24.
%RSD	.2305	.4508	.5945	.2009	.6860	.2405

#1	554.3	558.2	2737.	506.6	533.1	9876.
#2	556.0	560.4	2744.	507.9	526.0	9849.
#3	556.8	563.3	2768.	508.6	530.8	9828.

Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10290.	565.0	9480.	575.1	2806.	524.0
Stddev	50.	3.1	23.	2.6	14.	1.9
%RSD	.4889	.5449	.2428	.4518	.4810	.3667

#1	10250.	563.4	9497.	572.2	2795.	524.3
#2	10270.	563.1	9489.	576.0	2801.	522.0
#3	10350.	568.5	9454.	577.2	2821.	525.8

Check ?	None	None	None	Chk Pass	Chk Pass	None
Value						
Range						

Sample Name: lcs 460-523902/2-a@2 Acquired: 6/1/2018 0:26:40 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	521.4	602.4	269.4	562.5	522.0	548.9
Stddev	3.1	.9	.9	1.0	6.9	4.4
%RSD	.5912	.1439	.3218	.1699	1.329	.7991

#1	524.9	601.6	268.6	562.4	514.4	543.9
#2	519.1	602.1	269.4	563.5	523.9	551.6
#3	520.3	603.3	270.3	561.6	527.9	551.3

Check ?	Chk Pass	None	None	Chk Pass	None	None
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	545.1	517.7	536.5	-3.754
Stddev	5.2	.6	2.8	7.211
%RSD	.9469	.1095	.5210	192.1

#1	539.1	518.3	534.2	-6.576
#2	548.3	517.2	535.7	4.441
#3	547.8	517.5	539.6	-9.127

Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7025.1	43297.	9077.5
Stddev	8.6	201.	13.3
%RSD	.12268	.46325	.14665

#1	7027.7	43374.	9063.7
#2	7015.5	43448.	9090.3
#3	7032.2	43070.	9078.4

Sample Name: 460-156522-a-1-a Acquired: 6/1/2018 6:00:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -10340.	F -12620.	42.13	F -1728.	3.115	13560.
Stddev	6240.	15780.	539.5	2561.	16.25	7963.
%RSD	60.33	125.0	1280.	148.3	521.6	58.71

#1	-15880.	-23400.	-470.7	-4683.	-11.87	14170.
#2	-3584.	-19950.	604.8	-328.1	20.38	5315.
#3	-11560.	5493.	-7.663	-171.1	.8335	21210.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit	250000.	5000.		20000.		
Low Limit	-200.0	-10.00		-1000.		

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	88.93	F -10470.	F -255.4	F -952.9	F -16560.	84250.
Stddev	1424.	6968.	571.2	304.9	19830.	18850.
%RSD	1601.	66.58	223.7	32.00	119.8	22.37

#1	-1319.	-13290.	-532.0	-1182.	-38270.	81810.
#2	1528.	-15580.	401.5	-606.7	611.3	66740.
#3	57.81	-2529.	-635.6	-1070.	-12020.	104200.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit		5000.	10000.	25000.	200000.	
Low Limit		-50.00	-20.00	-50.00	-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7682.	46.14	22050.	F -20650.	F 16460.	F -68140.
Stddev	5026.	89.52	2322.	13030.	25000.	29790.
%RSD	65.43	194.0	10.53	63.10	151.9	43.72

#1	2010.	115.8	24720.	-34160.	45020.	-88830.
#2	11580.	77.46	20540.	-19630.	-1453.	-81600.
#3	9453.	-54.84	20890.	-8159.	5812.	-34000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				5000.	15000.	2000.
Low Limit				-50.00	-10.00	-20.00

Sample Name: 460-156522-a-1-a Acquired: 6/1/2018 6:00:54 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -126800.	F 77120.	F -436.9	F 5365.	F -2047e3	F -1991.
Stddev	66500.	53630.	788.7	3888.	1109000.	1815.
%RSD	52.47	69.54	180.5	72.47	54.18	91.17

#1	-158700.	113100.	-1306.	5947.	-2705e3	-998.1
#2	-171300.	102800.	234.1	8929.	-2670e3	-4085.
#3	-50310.	15480.	-239.0	1218.	-766500.	-888.4

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.	5000.	2000.	5000.
Low Limit	-10.00	-20.00	-50.00	-50.00	-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 4864.	F -143.4	F -62.33	F 60930.
Stddev	5945.	46.4	66.72	94270.
%RSD	122.2	32.33	107.0	154.7

#1	765.2	-109.7	-72.93	-24930.
#2	11680.	-196.3	-123.1	161800.
#3	2144.	-124.3	9.058	45930.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2000.	10000.	20000.	20000.
Low Limit	-50.00	-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.7702	-79.013	-22.058
Stddev	1.4680	5.332	3.209
%RSD	82.932	6.7482	14.546

#1	-.90491	-73.451	-21.679
#2	-.94041	-84.080	-19.055
#3	-3.4652	-79.509	-25.439

Sample Name: 460-156524-b-3-a Acquired: 6/1/2018 6:04:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -2637.	F -48900.	F -398.4	F -1086.	49.61	11820.
Stddev	12700.	73300.	346.0	1123.	18.37	3994.
%RSD	481.5	149.9	86.83	103.5	37.03	33.79

#1	-9898.	-133500.	-575.7	-1852.	43.58	9406.
#2	12020.	-5949.	.254	-1609.	70.24	16430.
#3	-10040.	-7216.	-619.8	204.1	35.02	9619.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.	20000.		
Low Limit	-200.0	-10.00	-20.00	-1000.		

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	823.8	F -19600.	F -203.3	F -750.7	F -7029.	F 172900.
Stddev	701.2	21530.	186.0	73.7	7262.	152000.
%RSD	85.11	109.9	91.53	9.815	103.3	87.91

#1	1541.	-44160.	-28.88	-736.8	-13670.	344900.
#2	140.4	-10680.	-181.8	-685.0	-8148.	117100.
#3	789.5	-3966.	-399.1	-830.4	726.9	56670.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		5000.	10000.	25000.	200000.	100000.
Low Limit		-50.00	-20.00	-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11420.	228.0	47410.	F -16200.	F 28650.	F -109800.
Stddev	1780.	41.6	24950.	8746.	36620.	113400.
%RSD	15.59	18.26	52.63	53.99	127.8	103.3

#1	9488.	257.4	75840.	-20320.	69590.	-235600.
#2	13000.	180.3	37220.	-22120.	17310.	-78390.
#3	11760.	246.2	29160.	-6154.	-958.7	-15430.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				5000.	15000.	2000.
Low Limit				-50.00	-10.00	-20.00

Sample Name: 460-156524-b-3-a Acquired: 6/1/2018 6:04:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -190400.	F 64900.	F -359.1	F 6282.	F -4228e3	F -11820.
Stddev	201100.	62150.	199.1	4041.	3701000.	17910.
%RSD	105.6	95.77	55.44	64.32	87.53	151.6

#1	-419900.	136400.	-359.4	10620.	-8420e3	-32340.
#2	-106000.	23940.	-159.9	5596.	-2850e3	-3776.
#3	-45290.	34340.	-558.0	2629.	-1414e3	668.2

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.	5000.	2000.	5000.
Low Limit	-10.00	-20.00	-50.00	-50.00	-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -307.2	F -220.3	F -88.82	F 148000.
Stddev	4395.	81.7	135.7	82340.
%RSD	1431.	37.09	152.8	55.64

#1	-4738.	-136.3	-14.62	175100.
#2	-234.1	-299.4	-6.358	213400.
#3	4051.	-225.2	-245.5	55510.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2000.	10000.	20000.	20000.
Low Limit	-50.00	-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.4232	-89.378	-13.842
Stddev	1.1953	8.131	6.804
%RSD	83.988	9.0968	49.157

#1	-36596	-98.580	-7.3854
#2	-1.1834	-86.389	-13.193
#3	-2.7202	-83.166	-20.947

Sample Name: 460-156521-a-1-a Acquired: 6/1/2018 5:52:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 616500.	33.70	F 443100.	10.88	2.170	40750.
Stddev	9819.	4.43	3574.	.23	.060	632.
%RSD	1.593	13.13	.8065	2.124	2.762	1.551

#1	620800.	38.75	445300.	11.08	2.232	41040.
#2	623500.	31.91	445100.	10.63	2.113	41180.
#3	605300.	30.45	439000.	10.94	2.166	40020.

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.		2500.			
Low Limit	-200.0		-20.00			

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.481	-12.84	138.0	55.15	383.4	F 1764000.
Stddev	.085	.84	2.2	3.11	5.8	28370.
%RSD	5.743	6.551	1.615	5.629	1.514	1.609

#1	-1.574	-13.52	138.1	53.17	388.0	1760000.
#2	-1.407	-13.10	140.2	53.56	385.4	1794000.
#3	-1.462	-11.90	135.8	58.73	376.9	1737000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						100000.
Low Limit						-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10310.	6.397	F 4271000.	21.10	73.07	1.633
Stddev	335.	.128	73250.	.41	.92	2.592
%RSD	3.248	2.008	1.715	1.945	1.259	158.8

#1	10440.	6.300	4295000.	21.17	74.01	4.622
#2	10560.	6.348	4329000.	20.66	73.04	.2837
#3	9929.	6.542	4189000.	21.47	72.17	-.0068

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156521-a-1-a Acquired: 6/1/2018 5:52:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31.71	F -43.35	6.546	160.2	F 686900.	3.634
Stddev	4.34	1.96	.091	8.1	69000.	.385
%RSD	13.68	4.520	1.389	5.080	10.05	10.60
#1	32.40	-43.71	6.516	154.4	723900.	3.995
#2	35.65	-45.10	6.648	156.6	729500.	3.680
#3	27.06	-41.23	6.474	169.5	607300.	3.228
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit		5000.			2000.	
Low Limit		-20.00			-50.00	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-7.424	122.0	3537.	5773.
Stddev	1.217	.4	40.	481.
%RSD	16.39	.3000	1.136	8.333
#1	-8.293	122.2	3570.	6062.
#2	-6.034	122.2	3549.	6040.
#3	-7.946	121.6	3492.	5218.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	5331.2	29094.	7851.6
Stddev	513.9	228.	142.8
%RSD	9.6399	.78410	1.8188
#1	5039.8	29129.	7816.4
#2	5029.1	29302.	7729.6
#3	5924.5	28850.	8008.7

Sample Name: CCVL Acquired: 6/1/2018 0:38:03 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	179.6	12.72	8.520	191.1	1.783	4366.
Stddev	10.4	1.82	.676	5.9	.039	145.
%RSD	5.791	14.34	7.935	3.077	2.179	3.323

#1	172.4	14.03	7.873	186.2	1.762	4221.
#2	174.9	10.64	8.463	189.4	1.759	4366.
#3	191.5	13.49	9.222	197.6	1.828	4511.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.806	47.88	10.60	22.57	151.5	4134.
Stddev	.096	1.41	.50	.62	8.5	100.
%RSD	2.525	2.944	4.685	2.757	5.622	2.425

#1	3.699	46.68	10.03	22.03	142.9	4058.
#2	3.834	47.53	10.95	22.43	159.9	4095.
#3	3.885	49.43	10.82	23.25	151.8	4247.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4422.	15.04	4247.	40.63	10.24	18.50
Stddev	183.	.62	118.	.65	.54	1.59
%RSD	4.147	4.109	2.767	1.595	5.229	8.589

#1	4235.	14.42	4175.	40.08	10.08	19.07
#2	4429.	15.04	4184.	40.46	9.799	16.70
#3	4602.	15.65	4383.	41.34	10.83	19.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 0:38:03 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.44	23.69	46.58	30.87	47.40	19.05
Stddev	2.43	2.23	2.31	1.53	2.97	.65
%RSD	13.96	9.432	4.960	4.948	6.274	3.395
#1	19.31	22.86	44.28	29.23	44.21	18.32
#2	18.33	21.99	46.57	31.12	47.89	19.26
#3	14.69	26.22	48.90	32.25	50.10	19.56

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	47.79	18.06	20.09	F 17.76
Stddev	2.19	.58	.99	12.17
%RSD	4.581	3.234	4.946	68.53
#1	45.42	17.70	19.18	3.771
#2	48.20	17.74	19.94	23.58
#3	49.74	18.73	21.15	25.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7053.6	44054.	9115.0
Stddev	176.5	1225.	292.6
%RSD	2.5016	2.7813	3.2101
#1	7211.8	45266.	9296.6
#2	7085.9	44079.	9270.9
#3	6863.3	42816.	8777.4

Sample Name: CCV Acquired: 6/1/2018 0:30:20 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122900.	2466.	1220.	10150.	987.4	122400.
Stddev	466.	11.	9.	58.	4.1	802.
%RSD	.3794	.4393	.7442	.5713	.4180	.6553

#1	123200.	2477.	1227.	10210.	990.3	123300.
#2	123200.	2466.	1223.	10140.	989.3	122200.
#3	122400.	2455.	1210.	10090.	982.7	121700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1247.	2517.	4970.	12350.	98580.	48780.
Stddev	9.	15.	30.	84.	605.	209.
%RSD	.6824	.6101	.6072	.6794	.6140	.4291

#1	1256.	2534.	5002.	12370.	99220.	48820.
#2	1246.	2514.	4968.	12420.	98520.	48970.
#3	1240.	2503.	4941.	12250.	98010.	48560.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122000.	5129.	125300.	2544.	7513.	974.7
Stddev	887.	31.	386.	21.	54.	2.6
%RSD	.7272	.6044	.3082	.8423	.7200	.2625

#1	123000.	5158.	125600.	2567.	7570.	975.8
#2	121900.	5133.	125600.	2540.	7506.	976.5
#3	121200.	5096.	124900.	2524.	7462.	971.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 0:30:20 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2468.	2526.	2480.	2514.	975.4	2451.
Stddev	7.	22.	14.	24.	5.4	10.
%RSD	.2953	.8617	.5762	.9362	.5485	.4017
#1	2476.	2544.	2492.	2540.	981.5	2462.
#2	2465.	2533.	2484.	2508.	973.2	2447.
#3	2462.	2502.	2464.	2494.	971.5	2443.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	997.3	4968.	9971.	9483.
Stddev	7.8	19.	46.	46.
%RSD	.7820	.3746	.4639	.4830
#1	1006.	4976.	10010.	9527.
#2	995.1	4980.	9981.	9487.
#3	990.8	4946.	9920.	9436.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6667.8	41280.	8756.2
Stddev	56.6	412.	64.4
%RSD	.84824	.99821	.73570
#1	6603.6	40827.	8686.4
#2	6689.1	41381.	8768.8
#3	6710.5	41632.	8813.4

Sample Name: 460-156524-b-4-a Acquired: 6/1/2018 6:08:23 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -413.8	F -2639.	250.1	349.6	26.37	7973.
Stddev	4398.	3933.	961.2	603.3	46.67	6625.
%RSD	1063.	149.1	384.3	172.6	177.0	83.09

#1	4334.	-1450.	1300.	291.9	-16.87	14270.
#2	-1225.	-7029.	-585.9	-222.8	75.85	8591.
#3	-4350.	563.3	36.03	979.6	20.14	1061.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.				
Low Limit	-200.0	-10.00				

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -35.85	F -8860.	F -91.82	F -993.7	F -6154.	49990.
Stddev	1420.	4640.	125.6	97.3	7009.	15370.
%RSD	3960.	52.37	136.8	9.788	113.9	30.75

#1	959.3	-6331.	48.08	-1002.	453.4	65700.
#2	594.8	-6034.	-194.9	-892.4	-13510.	49290.
#3	-1662.	-14220.	-128.7	-1086.	-5411.	34980.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	2500.	5000.	10000.	25000.	200000.	
Low Limit	-10.00	-50.00	-20.00	-50.00	-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9615.	69.12	20190.	F -16560.	7546.	F -50060.
Stddev	8387.	51.13	3005.	15720.	1048.	20560.
%RSD	87.22	73.97	14.88	94.91	13.89	41.07

#1	17860.	29.15	22060.	-12140.	6337.	-43880.
#2	9901.	51.47	21800.	-3528.	8091.	-33300.
#3	1089.	126.7	16730.	-34020.	8208.	-73000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				5000.		2000.
Low Limit				-50.00		-20.00

Sample Name: 460-156524-b-4-a Acquired: 6/1/2018 6:08:23 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -76260.	F 40870.	F -431.1	3792.	F -3921e3	F -3663.
Stddev	56030.	25680.	291.9	3107.	2923000.	3574.
%RSD	73.47	62.84	67.71	81.93	74.56	97.57

#1	-39450.	29360.	-95.58	2704.	-2443e3	-2766.
#2	-48590.	22950.	-570.9	1376.	-2031e3	-622.6
#3	-140700.	70290.	-626.9	7297.	-7288e3	-7600.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.		2000.	5000.
Low Limit	-10.00	-20.00	-50.00		-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 2309.	F -116.2	-25.80	F 61910.
Stddev	1945.	38.2	108.7	22140.
%RSD	84.24	32.86	421.2	35.76

#1	2250.	-159.1	-151.2	36780.
#2	393.8	-103.5	41.36	70420.
#3	4282.	-85.98	32.42	78530.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2000.	10000.		20000.
Low Limit	-50.00	-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.8760	-80.056	-20.715
Stddev	.9681	4.130	2.765
%RSD	51.606	5.1591	13.348

#1	-2.0548	-82.630	-22.312
#2	-2.7422	-75.292	-17.522
#3	-.83092	-82.245	-22.312

Sample Name: 460-156908-a-5-h@5 Acquired: 6/1/2018 0:58:19 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	249.5	3.901	.0490	201.8	.0639	21220.
Stddev	9.8	.427	.1124	1.6	.0346	14.
%RSD	3.932	10.94	229.3	.7980	54.15	.0657

#1	253.9	4.384	.0608	203.6	.1026	21220.
#2	256.3	3.575	.1550	201.3	.0532	21230.
#3	238.3	3.744	-.0688	200.5	.0359	21200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1568	1.252	1.474	3.201	737.9	413.3
Stddev	.1576	.061	.344	.240	1.5	26.3
%RSD	100.5	4.851	23.37	7.503	.2098	6.353

#1	-.0252	1.270	1.863	3.443	738.5	383.2
#2	.2446	1.184	1.208	2.962	739.1	431.0
#3	.2509	1.301	1.351	3.197	736.2	425.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2339.	513.5	F 257800.	2.107	1.748	-1.223
Stddev	32.	1.3	1223.	.212	.815	.774
%RSD	1.359	.2622	.4742	10.04	46.63	63.28

#1	2364.	514.9	258700.	2.087	2.685	-2.032
#2	2303.	513.2	258400.	1.906	1.359	-1.146
#3	2350.	512.3	256400.	2.328	1.200	-.4902

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-5-h@5 Acquired: 6/1/2018 0:58:19 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0474	1.861	2.464	19.67	46.04	.0519
Stddev	.7289	1.290	.181	.15	.37	.1013
%RSD	1537.	69.29	7.367	.7690	.7962	195.2

#1	-.1552	2.909	2.380	19.69	46.24	-.0632
#2	.8562	.4208	2.672	19.52	46.26	.0916
#3	-.5588	2.254	2.339	19.82	45.62	.1273

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4464	112.6	10.78	1045.
Stddev	.4033	1.3	.58	25.
%RSD	90.35	1.156	5.390	2.380

#1	.3029	113.1	11.26	1039.
#2	.9019	111.2	10.13	1024.
#3	.1344	113.6	10.95	1073.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6771.0	41450.	9014.6
Stddev	29.3	84.	8.1
%RSD	.43202	.20326	.09035

#1	6743.3	41353.	9005.5
#2	6801.6	41505.	9021.1
#3	6768.2	41492.	9017.2

Sample Name: CCB Acquired: 6/1/2018 6:31:21 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -8905.	F -6556.	F -450.7	F -244.6	F 68.77	F 8236.
Stddev	5793.	6226.	639.2	692.2	24.68	4006.
%RSD	65.05	94.97	141.8	282.9	35.89	48.64

#1	-9199.	-2256.	-1173.	384.1	42.03	6328.
#2	-14550.	-13700.	41.98	-986.3	73.59	5541.
#3	-2971.	-3716.	-221.1	-131.6	90.68	12840.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	200.0	15.00	10.00	200.0	2.000	5000.
Low Limit	-200.0	-15.00	-10.00	-200.0	-2.000	-5000.

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 2263.	F -6987.	F 105.4	F -511.4	F -7829.	F 6996.
Stddev	2526.	7131.	327.8	89.5	6457.	71e3
%RSD	111.6	102.1	310.9	17.49	82.48	1018.

#1	1058.	-3980.	-22.78	-606.7	-10450.	72550.
#2	5166.	-15130.	-138.9	-498.0	-12560.	-68750.
#3	565.7	-1851.	477.9	-429.3	-472.8	17190.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	4.000	50.00	10.00	25.00	150.0	5000.
Low Limit	-4.000	-50.00	-10.00	-25.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4785.	F 78.39	F 23600.	F -14810.	F 7719.	F -60540.
Stddev	2037.	69.66	3508.	14440.	6994.	68890.
%RSD	42.58	88.86	14.86	97.52	90.62	113.8

#1	5704.	115.5	27590.	-9950.	15010.	-26230.
#2	6200.	-1.967	21000.	-31050.	1060.	-139800.
#3	2450.	121.6	22210.	-3423.	7091.	-15540.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		15.00	5000.	40.00	10.00	20.00
Low Limit		-15.00	-5000.	-40.00	-10.00	-20.00

Sample Name: CCB Acquired: 6/1/2018 6:31:21 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -62050.	F 8207.	F -267.3	F 2468.	F -8699e3	F -2306.
Stddev	59200.	11e3	322.6	2112.	8995000.	1792.
%RSD	95.41	137.1	120.7	85.61	103.4	77.70

#1	-38210.	13160.	-564.3	1043.	-4158e3	-1824.
#2	-129500.	-4670.	75.99	4895.	-19e6	-4289.
#3	-18480.	16130.	-313.6	1465.	-2880e3	-804.3

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	20.00	20.00	50.00	30.00	50.00	20.00
Low Limit	-20.00	-20.00	-50.00	-30.00	-50.00	-20.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 2783.	F -252.3	F 124.7	41110.
Stddev	4115.	173.7	164.8	60950.
%RSD	147.9	68.85	132.2	148.3

#1	941.8	-250.2	57.03	75160.
#2	7497.	-79.68	4.416	77430.
#3	-90.49	-427.1	312.5	-29260.

Check ?	Chk Fail	Chk Fail	Chk Fail	None
High Limit	50.00	20.00	20.00	
Low Limit	-50.00	-20.00	-20.00	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-2.7485	-72.721	-12.562
Stddev	2.0508	4.069	1.294
%RSD	74.617	5.5955	10.301

#1	-2.8063	-68.715	-13.733
#2	-.66933	-72.597	-12.781
#3	-4.7698	-76.850	-11.173

Sample Name: CCV Acquired: 6/1/2018 6:27:29 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 10360.	F 3963.	F 211.6	F 593.3	F -4.466	F 11530.
Stddev	6132.	5248.	574.6	552.2	8.907	312.
%RSD	59.19	132.4	271.6	93.07	199.4	2.708

#1	15000.	-1282.	-451.6	95.97	3.459	11860.
#2	3408.	9214.	561.0	496.4	-14.10	11490.
#3	12670.	3957.	525.3	1188.	-2.752	11240.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	125000.	2500.	1250.	10000.	1000.	125000.
Range	-10.50%	10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -180.1	F 6051.	F -1.241	F -711.9	F -11310.	F 92670.
Stddev	787.2	7485.	492.2	263.2	8711.	23970.
%RSD	437.1	123.7	39660.	36.97	77.03	25.87

#1	501.8	-1364.	171.4	-447.8	-11050.	68390.
#2	-.524	13600.	-556.5	-713.7	-20150.	93300.
#3	-1042.	5912.	381.4	-974.2	-2729.	116300.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	1250.	2500.	5000.	12500.	100000.	50000.
Range	-10.50%	10.50%	-10.50%	-10.50%	-10.50%	10.50%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 4052.	F 138.4	F 36950.	F 9853.	F -6076.	F 40180.
Stddev	8015.	89.4	6441.	13e3	7296.	40730.
%RSD	197.8	64.58	17.43	136.6	120.1	101.4

#1	-1506.	157.0	30850.	-5347.	2309.	-5185.
#2	423.4	41.16	36310.	20270.	-9559.	73630.
#3	13240.	217.0	43680.	14640.	-10980.	52090.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	125000.	5000.	125000.	2500.	7500.	1000.
Range	-10.50%	-10.50%	-10.50%	10.50%	-10.50%	10.50%

Sample Name: CCV Acquired: 6/1/2018 6:27:29 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 52750.	F -6620.	F 124.2	F -2233.	F 5100000.	F 1761.
Stddev	59020.	17850.	260.5	3281.	6197000.	2994.
%RSD	111.9	269.7	209.8	146.9	121.5	170.0

#1	-12320.	13750.	-139.1	1390.	-1874e3	-906.5
#2	102800.	-19560.	381.7	-5005.	9974000.	4999.
#3	67730.	-14050.	129.8	-3083.	7200000.	1192.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	2500.	2500.	2500.	2500.	1000.	2500.
Range	10.50%	-10.50%	-10.50%	-10.50%	10.50%	-10.50%

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -2045.	F -186.6	F -163.0	-338.8
Stddev	2300.	88.3	56.1	82800.
%RSD	112.5	47.32	34.43	24430.

#1	603.2	-228.2	-178.3	5929.
#2	-3540.	-85.17	-210.0	-86090.
#3	-3198.	-246.4	-100.8	79150.

Check ?	Chk Fail	Chk Fail	Chk Fail	None
Value	1000.	5000.	10000.	
Range	-10.50%	-10.50%	-10.50%	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-86938	-77.719	-12.509
Stddev	3.4981	5.182	2.817
%RSD	402.37	6.6673	22.522

#1	-4.9023	-83.698	-15.661
#2	.95121	-74.926	-11.627
#3	1.3430	-74.532	-10.237

Sample Name: 460-156633-d-2-a Acquired: 6/1/2018 6:39:00 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -6764.	F 45580.	304.0	3114.	122.7	7980.
Stddev	10340.	216e3	899.1	5134.	28.7	6416.
%RSD	152.9	473.0	295.7	164.9	23.42	80.40

#1	-5524.	-138100.	1269.	9033.	154.1	13370.
#2	-17670.	282900.	-510.1	-117.8	97.64	9684.
#3	2904.	-8064.	153.2	425.4	116.4	884.0

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.				
Low Limit	-200.0	-10.00				

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 4131.	2402.	107.9	F -279.7	1901.	1566.
Stddev	4311.	45e3	301.2	53.2	2845.	36e3
%RSD	104.4	1864.	279.1	19.02	149.6	2325.

#1	9103.	-39800.	-222.1	-295.0	3064.	-13010.
#2	1855.	49360.	368.1	-220.5	3980.	43010.
#3	1434.	-2348.	177.9	-323.5	-1341.	-25300.

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit	2500.			25000.		
Low Limit	-10.00			-50.00		

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9349.	159.1	9242.	F 5756.	F -41110.	F -42420.
Stddev	6111.	22.8	5523.	151e3	99550.	402000.
%RSD	65.37	14.31	59.76	2631.	242.1	947.6

#1	16230.	170.3	14530.	-139500.	27320.	-457100.
#2	7260.	132.9	3507.	162700.	-155300.	345500.
#3	4556.	174.0	9694.	-5942.	4660.	-15690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				5000.	15000.	2000.
Low Limit				-50.00	-10.00	-20.00

Sample Name: 460-156633-d-2-a Acquired: 6/1/2018 6:39:00 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -88630.	F -45000.	196.5	F -3575.	F 12e6	F -2502.
Stddev	421300.	315300.	400.3	23630.	121e6	1897.
%RSD	475.4	700.6	203.7	661.0	1002.	75.82

#1	-537800.	239600.	379.9	17680.	-99e6	-3717.
#2	297900.	-383900.	472.2	-29020.	141e6	-3472.
#3	-25980.	9265.	-262.6	621.4	-5487e3	-316.2

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	5000.	5000.		5000.	2000.	5000.
Low Limit	-10.00	-20.00		-50.00	-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 3074.	F -353.3	86.08	F 23610.
Stddev	8071.	155.9	114.9	396e3
%RSD	262.6	44.13	133.5	1679.

#1	11640.	-325.8	64.84	426700.
#2	-4393.	-521.2	210.1	-365600.
#3	1976.	-213.0	-16.76	9753.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2000.	10000.		20000.
Low Limit	-50.00	-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.2920	-71.590	-8.7540
Stddev	2.1990	3.896	.9908
%RSD	170.20	5.4425	11.318

#1	-.19744	-67.308	-7.7149
#2	.14484	-74.926	-8.8587
#3	-3.8234	-72.536	-9.6882

Sample Name: 460-156720-a-5-a Acquired: 6/1/2018 6:46:40 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -6820.	F 35540.	187.5	1109.	19.07	6889.
Stddev	939.	74420.	447.8	1197.	31.54	3638.
%RSD	13.76	209.4	238.8	108.0	165.4	52.81

#1	-7904.	-4079.	698.6	214.1	-2.281	5143.
#2	-6298.	-10700.	-136.0	643.3	4.181	11070.
#3	-6259.	121400.	-.012	2469.	55.30	4452.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.				
Low Limit	-200.0	-10.00				

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -285.6	F 6723.	-6.487	F -297.5	F -8703.	F -102300.
Stddev	1462.	18e3	197.0	450.2	17960.	53450.
%RSD	511.7	260.7	3036.	151.4	206.3	52.26

#1	495.1	-1606.	-154.3	105.9	-19620.	-93370.
#2	619.7	-5084.	217.1	-215.2	12020.	-159600.
#3	-1972.	26860.	-82.29	-783.2	-18510.	-53830.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	2500.	5000.		25000.	200000.	100000.
Low Limit	-10.00	-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4164.	100.8	F -25830.	F 23980.	F -13790.	F 71190.
Stddev	2342.	22.7	6860.	55920.	26340.	159e3
%RSD	56.24	22.55	26.56	233.2	191.0	222.9

#1	2463.	98.53	-22490.	-4278.	1808.	-11200.
#2	6835.	124.6	-33720.	-12170.	1017.	-29310.
#3	3194.	79.35	-21270.	88380.	-44210.	254100.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit			250000.	5000.	15000.	2000.
Low Limit			-5000.	-50.00	-10.00	-20.00

Sample Name: 460-156720-a-5-a Acquired: 6/1/2018 6:46:40 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 107500.	F -31070.	F -375.9	2088.	F 24e6	2698.
Stddev	239800.	81400.	276.2	781.	58e6	6218.
%RSD	223.1	262.0	73.49	37.41	240.8	230.4

#1	-16650.	7058.	-175.1	1192.	-5351e3	-810.2
#2	-44840.	24270.	-261.7	2445.	-13e6	-972.6
#3	383900.	-124500.	-690.9	2628.	91e6	9878.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit	5000.	5000.	5000.		2000.	
Low Limit	-10.00	-20.00	-50.00		-50.00	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 2240.	F -249.8	F -63.33	F -59210.
Stddev	3301.	152.2	37.89	85240.
%RSD	147.3	60.94	59.84	143.9

#1	857.5	-198.5	-79.78	-5.6
#2	-143.9	-421.0	-19.99	-20730.
#3	6007.	-129.8	-90.22	-156900.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2000.	10000.	20000.	20000.
Low Limit	-50.00	-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.9544	-68.217	-15.340
Stddev	2.3158	1.842	3.281
%RSD	118.49	2.6995	21.389

#1	-4.3623	-66.478	-16.214
#2	-1.7576	-68.026	-11.711
#3	.25681	-70.147	-18.096

Sample Name: 460-157113-e-2-b Acquired: 6/1/2018 6:50:31 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -720.7	F -26020.	F -503.8	6.190	15.30	6805.
Stddev	11920.	20600.	1007.	512.2	48.08	8700.
%RSD	1653.	79.16	199.9	8274.	314.2	127.8

#1	-13460.	-18180.	354.8	179.1	27.02	9513.
#2	10160.	-49380.	-1613.	-570.1	-37.55	13830.
#3	1132.	-10490.	-253.5	409.6	56.43	-2926.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.			
Low Limit	-200.0	-10.00	-20.00			

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1378.	F -4692.	-19.93	F -401.3	F -28150.	F -137500.
Stddev	1261.	2270.	373.2	264.1	7405.	8263.
%RSD	91.49	48.37	1873.	65.81	26.30	6.009

#1	127.6	-2759.	-146.3	-97.37	-26960.	-133500.
#2	2649.	-4128.	-313.6	-574.9	-21420.	-147000.
#3	1358.	-7191.	400.1	-531.5	-36080.	-132000.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		5000.		25000.	200000.	100000.
Low Limit		-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5791.	166.1	F -22770.	F -13050.	F -495.9	F -45720.
Stddev	1736.	50.3	6432.	10590.	2440.	25280.
%RSD	29.98	30.29	28.25	81.16	492.0	55.29

#1	6797.	130.2	-15400.	-4961.	511.6	-23030.
#2	3786.	144.5	-27270.	-25030.	1279.	-72960.
#3	6789.	223.6	-25640.	-9146.	-3278.	-41150.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit			250000.	5000.	15000.	2000.
Low Limit			-5000.	-50.00	-10.00	-20.00

Sample Name: 460-157113-e-2-b Acquired: 6/1/2018 6:50:31 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -65070.	F 32360.	-24.94	3159.	F -18e6	F -3250.
Stddev	19950.	15970.	142.4	1230.	9314000.	888.
%RSD	30.66	49.35	571.1	38.95	53.22	27.33

#1	-48260.	14710.	-89.93	1770.	-8823e3	-2439.
#2	-59840.	45820.	138.4	3595.	-27e6	-4199.
#3	-87120.	36560.	-123.3	4113.	-16e6	-3112.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit	5000.	5000.			2000.	5000.
Low Limit	-10.00	-20.00			-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1907.	F -219.2	-14.61	5740.
Stddev	1276.	22.5	117.2	33e3
%RSD	66.89	10.26	802.6	571.5

#1	497.9	-193.5	40.26	-8230.
#2	2241.	-235.2	65.14	43220.
#3	2983.	-229.0	-149.2	-17770.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit		10000.		
Low Limit		-50.00		

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.5437	-66.107	-17.420
Stddev	.8959	5.892	3.592
%RSD	58.038	8.9127	20.622

#1	-2.5371	-72.891	-21.022
#2	-.79684	-62.269	-13.837
#3	-1.2972	-63.161	-17.401

Sample Name: 460-156778-f-2-a@4 Acquired: 6/1/2018 6:54:24 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -7423.	F -6917.	F -526.7	-567.3	41.20	6265.
Stddev	1765.	11400.	514.6	1156.	34.42	3146.
%RSD	23.77	164.9	97.70	203.7	83.55	50.22

#1	-5603.	-4108.	-775.8	-27.41	61.63	2685.
#2	-9127.	2820.	65.02	-1894.	60.50	7519.
#3	-7539.	-19460.	-869.4	219.6	1.458	8590.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.			
Low Limit	-200.0	-10.00	-20.00			

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	743.9	F -2972.	329.7	F -549.9	F -5269.	F -142100.
Stddev	296.3	361.	352.8	146.4	11820.	30090.
%RSD	39.83	12.14	107.0	26.63	224.4	21.17

#1	627.9	-2818.	365.7	-641.8	-3372.	-121800.
#2	523.2	-3384.	-39.80	-626.9	-17930.	-127900.
#3	1081.	-2714.	663.1	-381.1	5493.	-176700.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		5000.		25000.	200000.	100000.
Low Limit		-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6011.	85.11	F -33010.	F -5417.	9421.	F -18070.
Stddev	1868.	35.54	6767.	2011.	7967.	7277.
%RSD	31.07	41.76	20.50	37.12	84.56	40.26

#1	7106.	91.32	-25230.	-3234.	3318.	-14360.
#2	7073.	46.86	-36250.	-7193.	6512.	-13400.
#3	3855.	117.1	-37540.	-5824.	18430.	-26460.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit			250000.	5000.		2000.
Low Limit			-5000.	-50.00		-20.00

Sample Name: 460-156778-f-2-a@4 Acquired: 6/1/2018 6:54:24 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -22780.	F 16670.	F -239.6	1286.	F -6096e3	F -983.3
Stddev	8642.	3611.	177.8	722.	1061000.	905.4
%RSD	37.94	21.66	74.21	56.10	17.41	92.07

#1	-16650.	13750.	-356.0	546.1	-5081e3	-1976.
#2	-19020.	15550.	-328.0	1324.	-6010e3	-203.1
#3	-32660.	20710.	-34.93	1988.	-7198e3	-770.9

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.		2000.	5000.
Low Limit	-10.00	-20.00	-50.00		-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -720.3	F -217.9	18.09	F -2973.
Stddev	1618.	73.7	170.8	22480.
%RSD	224.7	33.83	944.3	756.3

#1	636.9	-148.2	24.96	-24590.
#2	-286.3	-295.1	-156.1	20290.
#3	-2511.	-210.6	185.4	-4616.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2000.	10000.		20000.
Low Limit	-50.00	-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-3.1443	-75.805	-15.569
Stddev	.6671	1.755	2.559
%RSD	21.215	2.3148	16.435

#1	-3.8294	-74.868	-18.522
#2	-3.1065	-74.718	-14.006
#3	-2.4969	-77.829	-14.180

Sample Name: 460-156778-f-6-a@4 Acquired: 6/1/2018 7:09:48 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -27620.	F 19050.	267.9	-634.1	109.3	2519.
Stddev	22790.	36170.	1259.	1902.	16.8	3027.
%RSD	82.51	189.8	469.9	300.0	15.36	120.2

#1	-34910.	60600.	1666.	-2810.	90.85	3627.
#2	-45860.	1952.	-774.0	196.1	123.7	4835.
#3	-2074.	-5393.	-88.87	711.8	113.3	-906.4

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.				
Low Limit	-200.0	-10.00				

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	335.5	2081.	167.2	F -312.4	2789.	F -293100.
Stddev	359.0	12e3	228.1	159.3	7976.	30680.
%RSD	107.0	567.1	136.5	50.99	286.0	10.47

#1	684.5	15700.	-29.10	-311.8	-6386.	-324400.
#2	354.7	-5126.	113.2	-153.4	6686.	-263100.
#3	-32.71	-4333.	417.4	-472.1	8066.	-291700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				25000.		100000.
Low Limit				-50.00		-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7919.	124.0	F -62940.	F -487.0	10100.	F 16140.
Stddev	3084.	38.0	20240.	16460.	7039.	84990.
%RSD	38.94	30.63	32.15	3381.	69.66	526.5

#1	11340.	83.49	-77220.	18510.	2524.	113700.
#2	7059.	158.8	-71810.	-10710.	11350.	-41900.
#3	5356.	129.6	-39780.	-9253.	16430.	-23370.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit			250000.	5000.		2000.
Low Limit			-5000.	-50.00		-20.00

Sample Name: 460-156778-f-6-a@4 Acquired: 6/1/2018 7:09:48 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -182.4	F -9979.	F -317.1	F -1398.	F 1822000.	F -3106.
Stddev	81060.	71930.	247.6	3775.	19e6	3853.
%RSD	44440.	720.8	78.10	270.0	1022.	124.0

#1	93010.	-91970.	-124.2	-5748.	23e6	-3977.
#2	-54320.	42490.	-230.7	1019.	-11e6	-6449.
#3	-39230.	19540.	-596.4	534.6	-6207e3	1108.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.	5000.	2000.	5000.
Low Limit	-10.00	-20.00	-50.00	-50.00	-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -4732.	F -470.0	55.83	F -5154.
Stddev	2308.	147.3	74.94	40450.
%RSD	48.77	31.34	134.2	784.7

#1	-7214.	-376.2	-30.53	-42020.
#2	-4331.	-639.8	103.8	38110.
#3	-2651.	-394.0	94.20	-11550.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2000.	10000.		20000.
Low Limit	-50.00	-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-.92353	-63.084	-7.4763
Stddev	1.3966	5.754	.2970
%RSD	151.22	9.1210	3.9731

#1	.58239	-65.804	-7.3627
#2	-1.1769	-66.973	-7.2529
#3	-2.1760	-56.474	-7.8134

Sample Name: 460-156778-f-3-b@4 Acquired: 6/1/2018 6:58:16 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -7273.	1148.	F -275.3	615.7	67.94	4363.
Stddev	7384.	19e3	76.9	2157.	52.19	3204.
%RSD	101.5	1671.	27.92	350.4	76.82	73.44

#1	1215.	-16520.	-235.8	-1522.	43.22	7182.
#2	-10820.	-1603.	-363.9	577.6	127.9	878.2
#3	-12220.	21570.	-226.2	2792.	32.70	5028.

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.		2500.			
Low Limit	-200.0		-20.00			

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -154.9	4369.	268.6	F -431.9	F -4200.	F -186600.
Stddev	2209.	11e3	268.3	260.6	6004.	36980.
%RSD	1426.	257.3	99.85	60.34	142.9	19.81

#1	1963.	-2466.	552.9	-723.9	-9053.	-173200.
#2	18.47	-1768.	19.96	-348.8	2514.	-228400.
#3	-2446.	17340.	233.1	-223.0	-6062.	-158200.

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	2500.			25000.	200000.	100000.
Low Limit	-10.00			-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5100.	85.73	F -31890.	F 6924.	F -6095.	F 33790.
Stddev	1168.	134.6	9803.	21e3	35290.	97180.
%RSD	22.90	157.0	30.74	301.1	579.0	287.6

#1	5666.	-38.92	-23140.	-5689.	23600.	-38880.
#2	5875.	67.70	-42480.	-4526.	3217.	-3916.
#3	3757.	228.4	-30060.	30990.	-45100.	144200.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit			250000.	5000.	15000.	2000.
Low Limit			-5000.	-50.00	-10.00	-20.00

Sample Name: 460-156778-f-3-b@4 Acquired: 6/1/2018 6:58:16 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 51590.	F -21370.	F -500.7	F -5009.	F 7705000.	2049.
Stddev	138e3	69480.	463.1	11220.	27e6	6952.
%RSD	268.4	325.1	92.49	224.0	350.1	339.2
#1	-38490.	33220.	-459.7	2531.	-12e6	-3051.
#2	-17740.	2260.	-59.46	346.8	-3920e3	-769.0
#3	211000.	-99590.	-983.0	-17910.	39e6	9968.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	5000.	5000.	5000.	5000.	2000.	
Low Limit	-10.00	-20.00	-50.00	-50.00	-50.00	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 2067.	F -208.1	-1.560	F 41570.
Stddev	1466.	46.6	117.4	23130.
%RSD	70.91	22.41	7521.	55.65
#1	375.3	-156.9	75.40	65680.
#2	2960.	-219.1	56.56	19560.
#3	2867.	-248.2	-136.6	39470.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2000.	10000.		20000.
Low Limit	-50.00	-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.6789	-73.243	-14.724
Stddev	2.2098	8.097	2.942
%RSD	131.62	11.055	19.978
#1	-1.4199	-80.064	-17.456
#2	-4.0068	-75.371	-11.610
#3	.38990	-64.295	-15.106

Sample Name: 460-156778-f-5-a@4 Acquired: 6/1/2018 7:05:57 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -12480.	F -553100.	F -154.2	F 25260.	12.29	7272.
Stddev	6081.	897400.	362.8	48720.	38.29	5412.
%RSD	48.71	162.2	235.3	192.9	311.6	74.41

#1	-6641.	-72060.	-56.07	-4624.	7.073	1291.
#2	-18780.	-1588e3	-555.9	81480.	52.92	11830.
#3	-12030.	1094.	149.4	-1073.	-23.13	8696.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.	20000.		
Low Limit	-200.0	-10.00	-20.00	-1000.		

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 27380.	F -137200.	170.1	F -594.3	F -21190.	F -153500.
Stddev	46200.	222000.	183.7	295.4	17310.	27760.
%RSD	168.7	161.8	108.0	49.71	81.69	18.08

#1	914.7	-14130.	221.4	-374.5	-18310.	-134900.
#2	80730.	-393400.	322.6	-478.3	-39750.	-140200.
#3	508.1	-3964.	-33.85	-930.1	-5496.	-185400.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	2500.	5000.		25000.	200000.	100000.
Low Limit	-10.00	-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3255.	157.3	F -46750.	F -367000.	F 348000.	F -946200.
Stddev	4217.	78.3	6929.	592800.	526700.	1539000.
%RSD	129.6	49.78	14.82	161.5	151.3	162.6

#1	2870.	167.9	-44240.	-38750.	70360.	-94680.
#2	-756.4	229.9	-54590.	-1051e3	955400.	-2722e3
#3	7652.	74.27	-41430.	-10990.	18280.	-21620.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit			250000.	5000.	15000.	2000.
Low Limit			-5000.	-50.00	-10.00	-20.00

Sample Name: 460-156778-f-5-a@4 Acquired: 6/1/2018 7:05:57 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -1829e3	F 672400.	F -534.9	F 120900.	F -282e6	F -33000.
Stddev	2909000.	1063e3	91.0	201800.	450e6	47410.
%RSD	159.1	158.1	17.01	166.8	159.8	143.7

#1	-260100.	88920.	-639.9	6776.	-36e6	-7898.
#2	-5186e3	1900000.	-486.5	353900.	-801e6	-87680.
#3	-40270.	28510.	-478.4	2123.	-7319e3	-3422.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.	5000.	2000.	5000.
Low Limit	-10.00	-20.00	-50.00	-50.00	-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 195800.	F -254.0	-42.67	F 126300.
Stddev	337800.	45.5	70.21	133100.
%RSD	172.5	17.92	164.5	105.4

#1	2250.	-217.4	-115.2	104600.
#2	585800.	-239.6	24.98	268900.
#3	-743.5	-304.9	-37.80	5423.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2000.	10000.		20000.
Low Limit	-50.00	-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-78114	-67.886	-12.749
Stddev	.99208	8.268	2.853
%RSD	127.00	12.180	22.379

#1	-.42283	-77.398	-15.990
#2	-.01799	-63.848	-11.639
#3	-1.9026	-62.413	-10.618

Sample Name: CCV Acquired: 6/1/2018 7:17:34 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -1558.	F -3669.	F 500.3	F -108.4	F 75.16	F 5274.
Stddev	6827.	7965.	1502.	575.2	16.16	10e3
%RSD	438.3	217.1	300.3	530.4	21.50	192.9

#1	-8207.	-11770.	298.5	-756.8	93.03	-5754.
#2	-1900.	-3381.	2093.	90.90	70.85	14300.
#3	5434.	4148.	-890.9	340.6	61.59	7279.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	125000.	2500.	1250.	10000.	1000.	125000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 600.6	F 86.48	F -67.50	F -543.3	F -13580.	F -184500.
Stddev	922.7	6749.	776.9	283.3	14870.	100700.
%RSD	153.6	7805.	1151.	52.15	109.5	54.56

#1	543.6	-5678.	-750.4	-756.1	-3145.	-297800.
#2	-292.3	-1574.	-229.9	-652.1	-6979.	-150600.
#3	1551.	7511.	777.8	-221.7	-30600.	-105200.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	1250.	2500.	5000.	12500.	100000.	50000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 8157.	F 50.76	F -57290.	F 4431.	7119.	F 6160.
Stddev	4765.	48.61	16320.	16e3	9121.	43e3
%RSD	58.42	95.75	28.49	362.9	128.1	697.7

#1	8946.	12.50	-74920.	-5160.	17240.	-24440.
#2	12480.	105.5	-42700.	-4543.	-473.1	-12380.
#3	3046.	34.33	-54250.	23000.	4592.	55300.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail
Value	125000.	5000.	125000.	2500.		1000.
Range	-10.50%	-10.50%	-10.50%	10.50%		10.50%

Sample Name: CCV Acquired: 6/1/2018 7:17:34 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 8144.	F -9638.	F -319.2	F 480.9	F 2121000.	2690.
Stddev	56e3	38010.	37.8	2610.	12e6	5496.
%RSD	687.5	394.4	11.85	542.8	561.6	204.3

#1	-26050.	16350.	-312.7	2346.	-5996e3	-348.4
#2	-22270.	7999.	-285.1	1599.	-3437e3	-615.7
#3	72760.	-53260.	-359.9	-2502.	16e6	9035.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value	2500.	2500.	2500.	2500.	1000.	
Range	10.50%	-10.50%	-10.50%	-10.50%	10.50%	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -426.4	F -303.8	F -18.51	-48760.
Stddev	1641.	89.2	106.0	106300.
%RSD	384.8	29.37	572.8	218.0

#1	1392.	-391.6	-135.3	15960.
#2	-875.2	-213.2	7.999	9203.
#3	-1796.	-306.7	71.73	-171400.

Check ?	Chk Fail	Chk Fail	Chk Fail	None
Value	1000.	5000.	10000.	
Range	-10.50%	-10.50%	-10.50%	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.8194	-62.071	-12.413
Stddev	2.4938	1.458	3.787
%RSD	137.07	2.3488	30.512

#1	-2.3004	-60.407	-8.6429
#2	-4.0377	-62.682	-16.218
#3	.87993	-63.125	-12.379

Sample Name: 460-156778-f-8-b@4 Acquired: 6/1/2018 7:29:17 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -4741.	F -38430.	F -467.6	F -2292.	46.23	625.1
Stddev	6402.	17650.	370.8	2491.	25.43	788.3
%RSD	135.0	45.93	79.29	108.7	55.00	126.1

#1	-3787.	-58730.	-60.60	-5168.	46.17	121.2
#2	1130.	-29880.	-786.2	-871.9	71.69	1534.
#3	-11570.	-26680.	-556.1	-835.3	20.84	220.4

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.	20000.		
Low Limit	-200.0	-10.00	-20.00	-1000.		

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2084.	F -8331.	349.4	F -1043.	F -8131.	F -234200.
Stddev	2122.	4404.	91.3	448.	3275.	41920.
%RSD	101.8	52.86	26.14	42.92	40.28	17.90

#1	4143.	-12150.	436.6	-733.0	-11000.	-270700.
#2	-95.04	-3515.	357.2	-1556.	-8824.	-188400.
#3	2204.	-9325.	254.4	-839.3	-4565.	-243500.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		5000.		25000.	200000.	100000.
Low Limit		-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10090.	199.5	F -83260.	F -13010.	4228.	F -46820.
Stddev	2787.	85.8	9608.	4551.	12e3	31620.
%RSD	27.61	43.00	11.54	34.98	282.1	67.53

#1	8738.	135.3	-77400.	-14010.	788.2	-83320.
#2	13300.	296.9	-78030.	-8043.	17500.	-27760.
#3	8242.	166.3	-94350.	-16980.	-5600.	-29380.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit			250000.	5000.		2000.
Low Limit			-5000.	-50.00		-20.00

Sample Name: 460-156778-f-8-b@4 Acquired: 6/1/2018 7:29:17 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -62160.	F 46880.	F -363.1	3407.	F -14e6	F -5792.
Stddev	32190.	27730.	166.7	2025.	7905000.	5569.
%RSD	51.80	59.15	45.92	59.42	57.33	96.15

#1	-99330.	71710.	-421.4	5734.	-23e6	-12220.
#2	-43810.	16960.	-492.8	2047.	-7776e3	-2392.
#3	-43330.	51980.	-175.0	2440.	-11e6	-2765.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.		2000.	5000.
Low Limit	-10.00	-20.00	-50.00		-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -4578.	F -220.2	24.35	F 57360.
Stddev	4605.	37.8	50.80	135e3
%RSD	100.6	17.16	208.6	236.1

#1	-9760.	-257.5	80.30	204300.
#2	-3022.	-181.9	-18.89	30210.
#3	-951.9	-221.3	11.65	-62460.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2000.	10000.		20000.
Low Limit	-50.00	-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.1331	-58.554	-15.018
Stddev	.5400	3.451	2.655
%RSD	47.654	5.8932	17.680

#1	-.57560	-62.280	-12.542
#2	-1.6537	-55.468	-17.822
#3	-1.1702	-57.913	-14.689

Sample Name: CCB Acquired: 6/1/2018 7:21:28 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -14820.	F -9903.	F -327.2	F -383.0	F 74.94	-521.2
Stddev	11910.	1438.	1065.	442.4	18.58	7982.
%RSD	80.36	14.52	325.5	115.5	24.80	1531.

#1	-27590.	-8397.	-1496.	-69.94	84.51	-5574.
#2	-12860.	-11260.	589.1	-190.0	86.78	-4670.
#3	-4014.	-10050.	-74.81	-889.2	53.52	8680.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	200.0	15.00	10.00	200.0	2.000	
Low Limit	-200.0	-15.00	-10.00	-200.0	-2.000	

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 552.9	F -2996.	F 259.9	F -592.2	F -17880.	F -186800.
Stddev	230.0	1144.	321.8	388.9	6801.	59880.
%RSD	41.60	38.21	123.8	65.68	38.04	32.06

#1	412.2	-3352.	72.15	-168.1	-21330.	-218900.
#2	428.2	-3919.	75.99	-932.3	-10050.	-223800.
#3	818.4	-1715.	631.5	-676.2	-22260.	-117700.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	4.000	50.00	10.00	25.00	150.0	5000.
Low Limit	-4.000	-50.00	-10.00	-25.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4121.	F 76.09	F -62320.	F -4980.	F 5336.	F -17580.
Stddev	5565.	158.9	20230.	2157.	3774.	3955.
%RSD	135.0	208.9	32.46	43.32	70.72	22.50

#1	-964.6	214.2	-62070.	-3652.	1411.	-18290.
#2	10070.	111.7	-82670.	-3818.	8938.	-13320.
#3	3263.	-97.62	-42210.	-7468.	5660.	-21130.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		15.00	5000.	40.00	10.00	20.00
Low Limit		-15.00	-5000.	-40.00	-10.00	-20.00

Sample Name: CCB Acquired: 6/1/2018 7:21:28 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -19540.	F 16250.	F -461.1	F 967.1	F -4788e3	F -652.0
Stddev	2519.	2104.	304.7	601.3	345300.	1273.
%RSD	12.89	12.94	66.08	62.17	7.212	195.2

#1	-16810.	14490.	-122.7	1657.	-4433e3	-323.6
#2	-21770.	15690.	-547.0	554.6	-5122e3	-2057.
#3	-20030.	18580.	-713.7	689.8	-4809e3	424.2

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	20.00	20.00	50.00	30.00	50.00	20.00
Low Limit	-20.00	-20.00	-50.00	-30.00	-50.00	-20.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 2224.	F -297.7	-15.79	-4811.
Stddev	898.	193.3	75.65	18280.
%RSD	40.36	64.94	479.0	380.0

#1	3110.	-343.6	62.36	-13320.
#2	1316.	-464.0	-88.66	16180.
#3	2245.	-85.59	-21.07	-17290.

Check ?	Chk Fail	Chk Fail	Chk Pass	None
High Limit	50.00	20.00		
Low Limit	-50.00	-20.00		

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-2.9662	-55.612	-12.727
Stddev	.2144	7.378	5.564
%RSD	7.2283	13.267	43.722

#1	-3.1914	-55.457	-8.9951
#2	-2.7644	-48.312	-10.063
#3	-2.9429	-63.066	-19.123

Sample Name: CCVL Acquired: 6/1/2018 7:25:22 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -22.29	F -14730.	F 43.61	F -262.3	F 3.458	5654.
Stddev	5106.	6278.	354.5	721.5	48.82	8407.
%RSD	22910.	42.63	812.8	275.1	1412.	148.7

#1	-826.4	-15530.	-180.6	3.826	25.51	12590.
#2	5438.	-20560.	-140.8	-1079.	-52.50	-3696.
#3	-4678.	-8084.	452.3	288.3	37.36	8070.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value	200.0	15.00	10.00	200.0	2.000	
Range	-30.50%	-30.50%	30.50%	-30.50%	30.50%	

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 895.2	F -3888.	F 168.1	F -181.3	F -173.2	F -158000.
Stddev	994.8	1409.	315.8	155.1	2726.	57140.
%RSD	111.1	36.24	187.9	85.57	1574.	36.17

#1	517.3	-3265.	300.5	-330.5	-2448.	-134900.
#2	2024.	-5502.	-192.4	-20.86	2848.	-223000.
#3	144.7	-2899.	396.1	-192.5	-919.2	-115900.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	4.000	50.00	10.00	25.00	150.0	5000.
Range	30.50%	-30.50%	30.50%	-30.50%	-30.50%	-30.50%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4144.	F 53.02	F -65570.	F -6058.	F 2131.	F -26620.
Stddev	1728.	104.4	15800.	1811.	2238.	12130.
%RSD	41.71	196.9	24.10	29.89	105.0	45.56

#1	2297.	123.9	-63350.	-8148.	315.5	-22070.
#2	5723.	-66.84	-82360.	-4994.	1446.	-40360.
#3	4411.	102.0	-50990.	-5030.	4631.	-17430.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value		15.00	5000.	40.00	10.00	20.00
Range		30.50%	-30.50%	-30.50%	30.50%	-30.50%

Sample Name: CCVL Acquired: 6/1/2018 7:25:22 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -26470.	F 14760.	F -310.3	F 1547.	F -6598e3	F -1665.
Stddev	10760.	2749.	292.5	186.	1648000.	1171.
%RSD	40.64	18.62	94.25	12.03	24.98	70.36

#1	-19970.	12550.	-213.7	1379.	-6843e3	-1163.
#2	-38880.	17840.	-638.9	1747.	-8111e3	-828.2
#3	-20550.	13900.	-78.35	1515.	-4842e3	-3004.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	20.00	20.00	50.00	30.00	50.00	20.00
Range	-30.50%	30.50%	-30.50%	30.50%	-30.50%	-30.50%

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -2526.	F -185.9	F 89.39	F 25710.
Stddev	4335.	53.4	312.2	17500.
%RSD	171.6	28.73	349.3	68.08

#1	-4342.	-129.8	115.5	45350.
#2	-5658.	-236.2	387.7	20040.
#3	2421.	-191.7	-235.0	11740.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	50.00	20.00	20.00	200.0
Range	-30.50%	-30.50%	30.50%	30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-2.1964	-58.462	-17.067
Stddev	.5668	3.099	4.129
%RSD	25.807	5.3000	24.192

#1	-2.0486	-61.532	-16.379
#2	-1.7182	-55.336	-13.326
#3	-2.8225	-58.519	-21.497

Sample Name: CCV Acquired: 6/1/2018 7:44:54 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -3078.	F -12550.	F 86.66	F -831.8	F 24.43	F -1909.
Stddev	6640.	14980.	612.3	1591.	60.11	9195.
%RSD	215.7	119.3	706.6	191.3	246.0	481.7

#1	2439.	-11590.	223.0	117.0	-41.07	8671.
#2	-1224.	1925.	619.4	55.96	77.06	-6425.
#3	-10450.	-27980.	-582.3	-2669.	37.30	-7972.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	125000.	2500.	1250.	10000.	1000.	125000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 1109.	F -2933.	F 35.61	F -232.6	F -9077.	F -201800.
Stddev	629.	744.	32.17	165.7	6969.	48270.
%RSD	56.69	25.35	90.34	71.25	76.78	23.93

#1	610.6	-2171.	42.47	-305.7	-14300.	-256900.
#2	1815.	-3657.	63.79	-42.88	-1164.	-181300.
#3	900.5	-2972.	.5650	-349.1	-11760.	-167100.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	1250.	2500.	5000.	12500.	100000.	50000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 4107.	F 38.11	F -135100.	F -6971.	F 4042.	F -35610.
Stddev	7536.	10.64	25070.	3240.	4738.	18270.
%RSD	183.5	27.92	18.55	46.48	117.2	51.32

#1	12240.	33.99	-157900.	-4798.	6799.	-21740.
#2	-2636.	50.19	-139200.	-5419.	-1428.	-28760.
#3	2717.	30.15	-108300.	-10690.	6756.	-56310.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	125000.	5000.	125000.	2500.	7500.	1000.
Range	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Sample Name: CCV Acquired: 6/1/2018 7:44:54 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -39300.	F 25350.	F -437.3	F 1261.	F -8145e3	F -2396.
Stddev	22320.	13830.	416.4	1131.	3419000.	1822.
%RSD	56.78	54.56	95.21	89.73	41.97	76.05

#1	-22460.	10340.	-773.3	-7.929	-4198e3	-371.7
#2	-30830.	28130.	28.51	2165.	-10e6	-3906.
#3	-64610.	37580.	-567.2	1625.	-10e6	-2911.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	2500.	2500.	2500.	2500.	1000.	2500.
Range	-10.50%	10.50%	-10.50%	-10.50%	-10.50%	-10.50%

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 135.5	F -153.0	F 80.81	26870.
Stddev	922.3	34.2	99.21	76760.
%RSD	680.6	22.35	122.8	285.7

#1	210.4	-187.4	40.44	9300.
#2	-822.0	-119.0	193.8	110900.
#3	1018.	-152.5	8.145	-39590.

Check ?	Chk Fail	Chk Fail	Chk Fail	None
Value	1000.	5000.	10000.	
Range	-10.50%	-10.50%	-10.50%	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.8140	-60.245	-14.271
Stddev	1.0063	7.550	2.935
%RSD	55.475	12.532	20.567

#1	-2.9759	-68.325	-11.472
#2	-1.2253	-53.370	-14.015
#3	-1.2408	-59.040	-17.325

Sample Name: 460-156908-a-6-g@5 Acquired: 6/1/2018 1:02:25 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.15	3.368	-.0159	281.0	.0150	28380.
Stddev	13.14	.920	.5695	3.5	.0151	228.
%RSD	99.94	27.33	3573.	1.249	100.8	.8046

#1	14.24	3.516	-.5158	277.1	.0231	28180.
#2	-.5036	2.383	-.1361	283.8	.0242	28340.
#3	25.72	4.206	.6040	282.2	-.0024	28630.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0454	1.041	.2890	1.203	43.18	380.3
Stddev	.0315	.068	.5265	.096	6.46	15.8
%RSD	69.29	6.493	182.2	8.012	14.97	4.153

#1	.0552	.9797	.0003	1.112	44.00	370.5
#2	.0102	1.029	-.0301	1.304	36.34	398.5
#3	.0709	1.113	.8967	1.194	49.19	371.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2269.	557.7	F 282000.	1.317	-1.378	-.9020
Stddev	40.	5.5	3484.	.287	1.079	.7789
%RSD	1.782	.9926	1.235	21.80	78.27	86.34

#1	2226.	553.2	284700.	1.124	-2.553	-.0382
#2	2306.	555.9	278100.	1.180	-1.150	-1.551
#3	2277.	563.9	283300.	1.647	-.4318	-1.117

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-6-g@5 Acquired: 6/1/2018 1:02:25 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.292	-.7140	1.337	10.69	45.67	.0800
Stddev	1.010	1.669	.144	.34	1.35	.2870
%RSD	44.05	233.7	10.80	3.212	2.961	358.6
#1	-1.888	-2.641	1.485	10.29	44.17	.2999
#2	-1.547	.2747	1.330	10.89	46.03	.1848
#3	-3.441	.2242	1.196	10.88	46.80	-.2446

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1680	151.1	1.210	578.8
Stddev	.0478	2.4	.070	29.1
%RSD	28.48	1.588	5.781	5.036
#1	-.1146	151.9	1.226	554.4
#2	-.1822	148.4	1.270	611.1
#3	-.2071	153.0	1.133	570.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6685.0	40752.	8922.9
Stddev	58.2	232.	120.8
%RSD	.87029	.56978	1.3541
#1	6744.9	40928.	8855.7
#2	6628.7	40838.	9062.4
#3	6681.2	40489.	8850.6

Sample Name: CCB Acquired: 6/1/2018 7:48:50 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -9865.	F -16180.	F 195.2	107.0	F 32.66	-143.9
Stddev	7956.	8351.	298.8	976.8	19.35	3243.
%RSD	80.66	51.62	153.0	913.0	59.26	2254.

#1	-2646.	-13520.	526.3	-409.9	31.37	55.25
#2	-18400.	-9477.	113.7	-502.7	13.98	-3482.
#3	-8552.	-25530.	-54.32	1234.	52.62	2995.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit	200.0	15.00	10.00		2.000	
Low Limit	-200.0	-15.00	-10.00		-2.000	

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 1508.	F -5933.	F 80.50	F -229.1	F -7451.	F -157500.
Stddev	1368.	2657.	314.7	357.8	10320.	43970.
%RSD	90.75	44.78	391.0	156.2	138.5	27.92

#1	1430.	-5043.	-280.7	-640.6	-5011.	-142200.
#2	179.8	-3836.	226.5	8.557	1430.	-207000.
#3	2913.	-8921.	295.7	-55.29	-18770.	-123100.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	4.000	50.00	10.00	25.00	150.0	5000.
Low Limit	-4.000	-50.00	-10.00	-25.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4814.	F 152.1	F -166700.	F -9349.	F 12250.	F -29640.
Stddev	3885.	125.6	40400.	4401.	9894.	14570.
%RSD	80.70	82.59	24.24	47.08	80.75	49.17

#1	7033.	173.3	-155900.	-11880.	9102.	-23100.
#2	7080.	265.8	-211300.	-4267.	4317.	-19480.
#3	328.3	17.22	-132700.	-11900.	23340.	-46340.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit		15.00	5000.	40.00	10.00	20.00
Low Limit		-15.00	-5000.	-40.00	-10.00	-20.00

Sample Name: CCB Acquired: 6/1/2018 7:48:50 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -35820.	F 22810.	F -400.1	F 2503.	F -10e6	F -468.8
Stddev	20570.	25980.	165.0	1021.	5520000.	1200.
%RSD	57.43	113.9	41.25	40.81	53.70	255.9

#1	-18500.	16380.	-509.6	3225.	-9354e3	460.1
#2	-30400.	658.1	-210.3	1334.	-5281e3	-1824.
#3	-58560.	51400.	-480.5	2948.	-16e6	-42.96

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	20.00	20.00	50.00	30.00	50.00	20.00
Low Limit	-20.00	-20.00	-50.00	-30.00	-50.00	-20.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 1074.	F -289.1	F 157.4	26350.
Stddev	1533.	55.3	31.5	68210.
%RSD	142.7	19.14	20.00	258.8

#1	-684.2	-227.8	155.2	-50990.
#2	1775.	-335.4	189.9	52120.
#3	2131.	-304.0	127.1	77930.

Check ?	Chk Fail	Chk Fail	Chk Fail	None
High Limit	50.00	20.00	20.00	
Low Limit	-50.00	-20.00	-20.00	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.4634	-53.058	-11.447
Stddev	.7948	1.557	2.194
%RSD	54.313	2.9351	19.170

#1	-1.3196	-54.535	-11.506
#2	-2.3204	-53.207	-9.2242
#3	-0.75035	-51.431	-13.612

Sample Name: 460-156778-f-11-a@4 Acquired: 6/1/2018 7:40:59 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -38010.	F -1726.	80.62	-270.9	482.8	F -1759.
Stddev	58930.	9019.	718.8	428.9	797.1	4990.
%RSD	155.1	522.5	891.7	158.4	165.1	283.6

#1	70.5	-8163.	-748.5	-764.8	-24.18	-5943.
#2	-105900.	-5597.	529.5	-54.50	1402.	-3099.
#3	-8206.	8582.	460.8	6.785	71.04	3763.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	250000.	5000.				250000.
Low Limit	-200.0	-10.00				-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	174.5	F -504.8	328.9	F -784.2	F -16460.	F -1396e3
Stddev	461.5	4069.	871.2	334.4	17210.	1975000.
%RSD	264.4	806.1	264.9	42.64	104.5	141.4

#1	416.7	-2940.	1054.	-1164.	-18180.	-237900.
#2	464.4	-2768.	-637.7	-534.8	1542.	-3677e3
#3	-357.6	4193.	570.6	-653.6	-32740.	-275100.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		5000.		25000.	200000.	100000.
Low Limit		-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1737.	133.8	F -867700.	F -2025.	F -6855.	F 2371.
Stddev	4376.	111.6	1261000.	8620.	16160.	30e3
%RSD	251.9	83.39	145.3	425.6	235.7	1261.

#1	-3207.	7.240	-133400.	-8676.	1573.	-15180.
#2	3305.	218.0	-2324e3	-5113.	3345.	-14600.
#3	5113.	176.2	-145800.	7713.	-25480.	36900.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit			250000.	5000.	15000.	2000.
Low Limit			-5000.	-50.00	-10.00	-20.00

Sample Name: 460-156778-f-11-a@4 Acquired: 6/1/2018 7:40:59 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	217.1	F -462.2	F -345.8	695.8	F -918600.	F -423.4
Stddev	41e3	25430.	349.0	1454.	9282000.	1290.
%RSD	18910.	5501.	100.9	209.0	1010.	304.6

#1	-25080.	10410.	-452.6	1085.	-5812e3	-1510.
#2	-21870.	17720.	-629.0	1916.	-6729e3	-762.4
#3	47600.	-29520.	44.13	-913.3	9786000.	1002.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit		5000.	5000.		2000.	5000.
Low Limit		-20.00	-50.00		-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -1363.	F -1315.	F -185.2	F 41800.
Stddev	1269.	1847.	91.9	34240.
%RSD	93.13	140.4	49.62	81.92

#1	-2181.	-201.3	-279.7	37780.
#2	99.26	-3447.	-96.24	77880.
#3	-2006.	-297.6	-179.5	9746.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2000.	10000.	20000.	20000.
Low Limit	-50.00	-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-.94384	-47.810	-8.9244
Stddev	1.9577	3.658	7.0131
%RSD	207.42	7.6511	78.583

#1	-2.2204	-45.951	-13.385
#2	-1.9212	-52.024	-.8408
#3	1.3101	-45.455	-12.548

Sample Name: 460-156908-a-7-g@5 Acquired: 6/1/2018 1:06:31 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.72	1.864	.0040	23.07	.7433	21970.
Stddev	2.81	.402	.7399	.53	.0137	220.
%RSD	7.869	21.55	18340.	2.282	1.838	1.001

#1	32.55	2.300	-.5690	23.68	.7562	22220.
#2	36.70	1.782	-.2582	22.80	.7446	21890.
#3	37.91	1.510	.8393	22.75	.7290	21800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0799	3.823	.2631	2.401	59.55	7032.
Stddev	.0989	.251	.1607	.073	6.26	62.
%RSD	123.9	6.568	61.09	3.031	10.51	.8806

#1	-.0266	3.723	.2084	2.323	66.76	7060.
#2	.0972	3.638	.4440	2.411	56.38	6961.
#3	.1690	4.109	.1368	2.468	55.51	7075.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2845.	214.0	F 273500.	4.268	-.0883	-1.139
Stddev	16.	1.4	4114.	.060	.4791	.609
%RSD	.5522	.6572	1.504	1.403	542.8	53.46

#1	2834.	213.4	277700.	4.208	-.5916	-1.073
#2	2863.	215.6	273100.	4.268	.3622	-1.779
#3	2838.	213.0	269500.	4.328	-.0354	-.5664

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-7-g@5 Acquired: 6/1/2018 1:06:31 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.066	2.446	.2727	11.58	13.19	-.2931
Stddev	1.852	.761	.1310	.15	.51	.0773
%RSD	89.68	31.11	48.05	1.294	3.895	26.37

#1	-3.068	1.575	.3209	11.63	13.31	-.2060
#2	.0721	2.982	.3728	11.41	12.62	-.3536
#3	-3.200	2.782	.1244	11.70	13.63	-.3196

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.9859	229.3	.8199	740.3
Stddev	.3212	2.6	.0447	10.9
%RSD	32.58	1.129	5.453	1.475

#1	1.317	232.1	.7799	727.8
#2	.6752	228.8	.8682	744.9
#3	.9659	227.0	.8116	748.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6727.0	41270.	9043.4
Stddev	53.8	374.	59.3
%RSD	.79960	.90598	.65614

#1	6664.9	40840.	8974.9
#2	6756.8	41461.	9076.5
#3	6759.3	41510.	9078.7

Sample Name: 460-156908-a-9-i@5 Acquired: 6/1/2018 1:14:43 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.87	.5465	-.0615	32.85	.7337	20970.
Stddev	10.55	1.147	.6311	.36	.0457	401.
%RSD	50.57	209.9	1026.	1.086	6.226	1.912

#1	26.07	-.4593	-.4758	33.23	.7680	21300.
#2	8.724	1.796	-.3736	32.79	.7511	21090.
#3	27.82	.3032	.6648	32.52	.6818	20520.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2153	3.698	.3489	3.722	48.55	7118.
Stddev	.0583	.129	.2141	.243	4.17	10.
%RSD	27.10	3.493	61.35	6.533	8.599	.1391

#1	.2820	3.551	.1067	3.573	48.71	7123.
#2	.1899	3.794	.5128	3.590	44.29	7107.
#3	.1740	3.748	.4272	4.002	52.64	7124.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2746.	203.9	F 273200.	4.865	3.696	-1.303
Stddev	49.	2.9	5439.	.385	.073	1.150
%RSD	1.782	1.433	1.991	7.907	1.966	88.29

#1	2795.	206.8	277700.	4.614	3.615	-.0045
#2	2745.	203.9	274700.	4.674	3.756	-1.709
#3	2698.	201.0	267200.	5.308	3.717	-2.194

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156908-a-9-i@5 Acquired: 6/1/2018 1:14:43 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.864	1.414	.2428	11.75	14.02	-.3168
Stddev	1.263	1.010	.0547	.12	.39	.1379
%RSD	67.77	71.40	22.55	1.040	2.809	43.54
#1	-2.482	.5100	.3060	11.81	13.85	-.2047
#2	-2.700	1.229	.2137	11.83	13.74	-.4708
#3	-.4108	2.504	.2088	11.61	14.47	-.2748

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.051	236.1	.7119	770.5
Stddev	.304	3.3	.0577	16.2
%RSD	28.94	1.408	8.098	2.102
#1	.7229	239.7	.6652	757.7
#2	1.105	235.4	.7764	765.1
#3	1.324	233.2	.6942	788.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6701.6	41060.	8927.8
Stddev	63.6	708.	164.8
%RSD	.94977	1.7234	1.8461
#1	6630.4	40479.	8797.7
#2	6721.2	40853.	8872.6
#3	6753.1	41848.	9113.2

Sample Name: CCVL Acquired: 6/1/2018 7:52:45 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -7764.	F 970.3	F -504.5	F -3.150	F 42.88	F 1974.
Stddev	3921.	15e3	1494.	323.9	19.75	4382.
%RSD	50.51	1562.	296.1	10280.	46.06	222.0

#1	-12050.	-13570.	-1042.	268.4	55.54	1757.
#2	-4363.	16680.	-1656.	83.88	20.12	-2296.
#3	-6875.	-201.1	1184.	-361.7	52.99	6460.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	200.0	15.00	10.00	200.0	2.000	5000.
Range	-30.50%	30.50%	-30.50%	-30.50%	30.50%	-30.50%

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -974.9	F 187.8	F 412.5	F -258.7	F -13580.	F -135100.
Stddev	2229.	5298.	53.6	61.0	13820.	9442.
%RSD	228.6	2822.	13.00	23.58	101.8	6.987

#1	27.69	-3098.	365.9	-292.2	-11690.	-145600.
#2	-3529.	6300.	471.2	-295.6	-28250.	-127300.
#3	576.5	-2639.	400.5	-188.3	-803.8	-132500.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	4.000	50.00	10.00	25.00	150.0	5000.
Range	-30.50%	30.50%	30.50%	-30.50%	-30.50%	-30.50%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 8102.	F 47.03	F -156900.	F -48.10	F 1404.	F 11030.
Stddev	5153.	43.91	38190.	9464.	5511.	38120.
%RSD	63.61	93.37	24.34	19680.	392.6	345.6

#1	13320.	3.462	-194700.	-5602.	4574.	-5961.
#2	7967.	91.28	-118400.	10880.	-4960.	54700.
#3	3018.	46.36	-157600.	-5422.	4597.	-15640.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	5000.	15.00	5000.	40.00	10.00	20.00
Range	30.50%	30.50%	-30.50%	-30.50%	30.50%	30.50%

Sample Name: CCVL Acquired: 6/1/2018 7:52:45 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -6289.	F -2752.	F -595.2	F 90.17	F 1647000.	F -1190.
Stddev	39950.	31000.	369.9	2810.	13e6	536.
%RSD	635.3	1127.	62.15	3116.	793.5	45.07

#1	-33200.	14870.	-637.3	983.6	-7185e3	-1343.
#2	39620.	-38550.	-942.2	-3058.	17e6	-593.9
#3	-25290.	15420.	-206.0	2344.	-4531e3	-1634.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	20.00	20.00	50.00	30.00	50.00	20.00
Range	-30.50%	-30.50%	-30.50%	30.50%	30.50%	-30.50%

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 2632.	F -304.5	F -169.4	F -23710.
Stddev	2449.	66.3	59.6	67830.
%RSD	93.02	21.78	35.20	286.0

#1	1329.	-332.4	-100.8	10910.
#2	5457.	-228.8	-209.1	-101900.
#3	1111.	-352.4	-198.2	19810.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	50.00	20.00	20.00	200.0
Range	30.50%	-30.50%	-30.50%	-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.1707	-56.710	-12.833
Stddev	1.6871	4.456	3.302
%RSD	144.11	7.8579	25.730

#1	-1.6562	-57.222	-9.8397
#2	.70589	-60.888	-16.375
#3	-2.5618	-52.020	-12.284

Sample Name: lb 460-522868/1-g@5 Acquired: 6/1/2018 1:38:40 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.857	.6561	.0390	.0899	-.0176	1.151
Stddev	12.69	.5829	.2743	.0774	.0410	18.38
%RSD	683.4	88.85	703.5	86.09	232.3	1597.

#1	9.117	.6691	.2097	.0023	-.0645	21.76
#2	1.067	.0667	-.2774	.1489	.0113	-4.795
#3	-15.75	1.232	.1846	.1186	.0003	-13.52

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0350	-.2135	.1921	.9772	8.266	2.471
Stddev	.0456	.0260	.1412	.4107	7.105	28.88
%RSD	130.0	12.19	73.54	42.02	85.96	1169.

#1	-.0787	-.2179	.3075	.5044	12.55	-29.90
#2	.0122	-.2369	.2341	1.245	.0643	11.74
#3	-.0386	-.1855	.0346	1.183	12.18	25.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-10.40	.1333	F 290000.	3.789	-.8714	-.1409
Stddev	3.31	.1556	2789.	.486	.2738	1.234
%RSD	31.86	116.7	.9616	12.82	31.42	876.1

#1	-6.594	.3046	286800.	4.080	-.5764	-1.403
#2	-11.95	.0947	291300.	4.058	-1.117	-.0838
#3	-12.65	.0007	292000.	3.228	-.9206	1.064

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: lb 460-522868/1-g@5 Acquired: 6/1/2018 1:38:40 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8405	1.965	-.1327	-.2074	4.318	-.1719
Stddev	1.611	.815	.3754	.0964	.649	.1338
%RSD	191.6	41.50	282.9	46.48	15.03	77.87
#1	-2.308	2.907	-.2527	-.0968	3.756	-.0887
#2	.8826	1.484	-.4334	-.2520	5.028	-.3263
#3	-1.096	1.505	.2880	-.2735	4.171	-.1007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8667	.0706	.1341	59.67
Stddev	.3029	.0300	.1117	20.04
%RSD	34.94	42.51	83.32	33.59
#1	1.097	.0423	.1873	39.85
#2	.9790	.0674	.0057	79.94
#3	.5238	.1020	.2092	59.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6796.2	41705.	9127.3
Stddev	37.4	224.	101.3
%RSD	.55039	.53823	1.1098
#1	6816.3	41564.	9034.3
#2	6753.0	41964.	9235.2
#3	6819.3	41587.	9112.5

Sample Name: CCV Acquired: 6/1/2018 1:22:55 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123500.	2482.	1221.	10130.	987.8	122000.
Stddev	2105.	31.	17.	124.	16.8	1199.
%RSD	1.704	1.259	1.401	1.225	1.696	.9826

#1	125700.	2515.	1237.	10260.	1005.	123100.
#2	123400.	2480.	1223.	10120.	987.4	122300.
#3	121500.	2452.	1203.	10010.	971.3	120700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1255.	2512.	4994.	12430.	98800.	48980.
Stddev	14.	28.	57.	227.	1044.	798.
%RSD	1.085	1.110	1.145	1.822	1.057	1.629

#1	1270.	2542.	5047.	12660.	99780.	49760.
#2	1252.	2508.	5002.	12430.	98910.	49010.
#3	1243.	2487.	4934.	12210.	97700.	48160.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121700.	5156.	125500.	2553.	7491.	984.5
Stddev	1273.	59.	2076.	28.	83.	13.7
%RSD	1.045	1.147	1.654	1.083	1.108	1.394

#1	122900.	5211.	127500.	2583.	7577.	998.5
#2	121800.	5164.	125500.	2548.	7484.	983.9
#3	120400.	5093.	123400.	2528.	7411.	971.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 6/1/2018 1:22:55 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2475.	2523.	2478.	2526.	982.5	2456.
Stddev	30.	18.	31.	21.	11.3	27.
%RSD	1.210	.6970	1.243	.8181	1.150	1.082
#1	2506.	2539.	2507.	2548.	994.0	2483.
#2	2473.	2525.	2481.	2520.	982.2	2455.
#3	2446.	2504.	2446.	2508.	971.4	2430.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	996.4	5016.	9911.	9670.
Stddev	9.1	87.	152.	145.
%RSD	.9141	1.740	1.535	1.494
#1	1007.	5104.	10060.	9807.
#2	993.6	5014.	9920.	9685.
#3	989.0	4930.	9754.	9519.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6636.2	41103.	8855.8
Stddev	60.5	362.	82.6
%RSD	.91167	.87972	.93311
#1	6574.1	40756.	8772.5
#2	6639.4	41076.	8857.2
#3	6695.0	41478.	8937.7

Sample Name: 460-156863-a-1-b@5 Acquired: 6/1/2018 1:42:47 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.86	1.541	-.1040	126.1	.0367	7571.
Stddev	4.85	1.092	.0565	1.6	.0287	66.
%RSD	12.48	70.86	54.35	1.272	78.07	.8747
#1	43.77	2.799	-.0783	127.0	.0046	7566.
#2	34.07	.8293	-.1689	127.1	.0597	7639.
#3	38.73	.9956	-.0649	124.3	.0458	7507.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5674	.4035	.4725	21.38	52.11	1773.
Stddev	.0855	.1903	.2570	.28	2.29	43.
%RSD	15.06	47.17	54.39	1.315	4.400	2.448
#1	.6661	.2338	.7488	21.13	52.12	1731.
#2	.5187	.3675	.2405	21.68	49.81	1818.
#3	.5175	.6093	.4284	21.33	54.39	1768.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2130.	40.44	F 281000.	2.670	26.92	.3139
Stddev	28.	.45	2078.	.167	.95	1.220
%RSD	1.292	1.114	.7397	6.246	3.522	388.7
#1	2101.	39.94	278800.	2.840	27.52	-1.089
#2	2156.	40.81	283000.	2.663	27.42	1.131
#3	2132.	40.57	281100.	2.507	25.83	.8993

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156863-a-1-b@5 Acquired: 6/1/2018 1:42:47 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0560	2.260	.1265	43.85	52.58	-.1280
Stddev	2.095	1.118	.2563	.52	.36	.1569
%RSD	3741.	49.45	202.7	1.175	.6818	122.6

#1	2.298	2.511	.3911	43.45	52.17	-.0350
#2	-1.717	1.038	-.1206	44.43	52.79	-.0398
#3	-.7490	3.230	.1089	43.67	52.80	-.3091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4934	96.46	1.065	345.5
Stddev	.2860	1.40	.109	10.7
%RSD	57.95	1.456	10.21	3.104

#1	.1632	94.84	1.064	334.9
#2	.6600	97.26	1.174	356.3
#3	.6571	97.29	.9568	345.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6792.6	41538.	8986.0
Stddev	21.5	237.	47.3
%RSD	.31641	.57163	.52636

#1	6807.7	41732.	9030.9
#2	6768.0	41273.	8936.6
#3	6802.0	41610.	8990.5

Sample Name: lb 460-522637/1-h@5 Acquired: 6/1/2018 2:03:08 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.29	1.355	-.0221	.0080	.0070	-9.285
Stddev	2.70	.402	.0862	.1901	.0844	3.239
%RSD	16.55	29.69	390.7	2390.	1203.	34.89

#1	16.17	1.738	.0467	.1060	.0993	-9.225
#2	13.65	.9363	.0060	.1291	-.0663	-6.076
#3	19.04	1.390	-.1188	-.2112	-.0120	-12.55

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0196	-.2646	.4318	.2273	8.081	30.17
Stddev	.0551	.1351	.3247	.1233	7.888	30.66
%RSD	281.4	51.05	75.20	54.23	97.61	101.6

#1	-.0339	-.2960	.2879	.1007	1.879	4.690
#2	.0166	-.3811	.8037	.3469	5.405	21.64
#3	.0761	-.1166	.2040	.2344	16.96	64.20

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-9.912	.0855	F 272300.	3.003	-.3884	.3175
Stddev	8.494	.1048	4101.	.750	1.287	1.697
%RSD	85.69	122.6	1.506	24.96	331.3	534.4

#1	-8.688	.1662	277000.	3.834	.5203	-1.592
#2	-18.95	.1232	269700.	2.799	.1753	1.652
#3	-2.096	-.0329	270200.	2.377	-1.861	.8933

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: lb 460-522637/1-h@5 Acquired: 6/1/2018 2:03:08 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.877	1.441	-.0172	-.4557	3.103	-.2130
Stddev	2.714	1.148	.1168	.1917	.060	.1425
%RSD	144.6	79.70	677.6	42.08	1.934	66.88

#1	-4.261	1.763	-.1301	-.3451	3.069	-.0559
#2	1.076	2.393	-.0248	-.6771	3.172	-.3338
#3	-2.447	.1657	.1032	-.3448	3.068	-.2494

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3546	-.0072	-.1762	28.96
Stddev	.2405	.0875	.1360	8.01
%RSD	67.82	1208.	77.17	27.68

#1	.1091	-.0216	-.1157	19.71
#2	.5898	.0866	-.3320	33.38
#3	.3650	-.0867	-.0810	33.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6867.3	41713.	8969.1
Stddev	15.4	155.	51.0
%RSD	.22419	.37091	.56871

#1	6849.7	41675.	8910.5
#2	6878.5	41581.	9003.3
#3	6873.6	41884.	8993.6

Sample Name: 460-156889-g-1-e@5 Acquired: 6/1/2018 1:59:02 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46.12	1.543	.0202	122.6	.3783	29580.
Stddev	.44	1.297	.2140	1.2	.0306	245.
%RSD	.9610	84.06	1061.	.9996	8.079	.8299

#1	46.54	.6757	-.2074	123.4	.3874	29800.
#2	45.66	.9192	.2174	123.2	.4034	29620.
#3	46.18	3.034	.0506	121.2	.3443	29310.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3459	8.119	.1045	3.352	834.7	331.0
Stddev	.1163	.101	.1440	.030	13.0	38.0
%RSD	33.63	1.245	137.8	.9113	1.562	11.47

#1	.4613	8.165	.1928	3.386	822.7	310.5
#2	.3479	8.188	-.0616	3.341	848.6	307.7
#3	.2287	8.003	.1823	3.328	832.7	374.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1810.	311.1	F 275200.	10.32	23.99	-.3179
Stddev	17.	2.5	2800.	.26	.41	.7513
%RSD	.9661	.8124	1.017	2.526	1.700	236.3

#1	1795.	313.9	273000.	10.28	24.33	-1.047
#2	1830.	310.4	278400.	10.09	23.53	.4537
#3	1807.	309.0	274300.	10.60	24.10	-.3601

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156889-g-1-e@5 Acquired: 6/1/2018 1:59:02 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4493	1.080	.5553	47.75	15.27	-.2796
Stddev	1.474	.665	.1207	.32	.24	.2124
%RSD	328.0	61.57	21.73	.6633	1.541	75.95

#1	1.134	1.610	.4656	47.92	15.25	-.4294
#2	-1.781	.3339	.5079	47.94	15.05	-.3730
#3	-.7013	1.296	.6925	47.38	15.51	-.0366

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0060	113.7	1.107	453.7
Stddev	.3321	.8	.176	5.2
%RSD	5501.	.6980	15.93	1.139

#1	.2137	113.0	1.114	459.3
#2	.1563	114.5	1.281	449.1
#3	-.3881	113.5	.9278	452.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6837.9	41853.	9071.9
Stddev	22.2	220.	38.3
%RSD	.32431	.52449	.42220

#1	6812.4	41613.	9112.9
#2	6849.2	41903.	9037.1
#3	6852.2	42043.	9065.7

Sample Name: 460-156863-a-2-b@5 Acquired: 6/1/2018 1:46:53 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	134.4	.7716	-.0505	206.9	.0096	35410.
Stddev	11.7	.6686	.3332	.7	.0134	58.
%RSD	8.695	86.65	659.5	.3354	139.6	.1625

#1	128.0	1.477	-.1535	206.4	.0108	35440.
#2	127.2	.6906	.3220	207.7	-.0044	35430.
#3	147.8	.1472	-.3201	206.6	.0222	35340.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.251	.8145	.9305	27.11	283.0	965.9
Stddev	.119	.1098	.2747	.10	10.8	16.2
%RSD	1.908	13.49	29.52	.3795	3.823	1.673

#1	6.140	.8551	.8154	26.99	275.7	964.0
#2	6.237	.6902	1.244	27.17	295.4	950.7
#3	6.377	.8983	.7320	27.17	277.9	982.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5888.	63.20	F 258500.	9.787	220.0	.6101
Stddev	50.	.33	2195.	.463	1.5	.2284
%RSD	.8468	.5260	.8489	4.729	.6628	37.44

#1	5846.	62.99	258200.	9.426	221.4	.8706
#2	5876.	63.03	260900.	9.626	218.5	.4440
#3	5943.	63.59	256600.	10.31	220.2	.5156

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-156863-a-2-b@5 Acquired: 6/1/2018 1:46:53 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.447	.7585	1.756	481.6	98.98	-.2286
Stddev	1.956	2.148	.251	8.3	.91	.2257
%RSD	135.1	283.2	14.31	1.733	.9221	98.73

#1	-.5094	-1.710	1.532	472.4	98.52	-.2268
#2	-.1377	2.205	2.028	483.7	98.38	-.0038
#3	-3.695	1.780	1.709	488.7	100.0	-.4552

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7010	176.9	6.514	1151.
Stddev	.1048	.2	.198	12.
%RSD	14.95	.1189	3.040	1.000

#1	.8215	176.7	6.581	1138.
#2	.6314	177.1	6.670	1157.
#3	.6500	176.8	6.292	1158.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6754.9	41463.	9001.5
Stddev	5.3	117.	14.6
%RSD	.07803	.28161	.16171

#1	6760.7	41335.	8993.2
#2	6750.3	41491.	8992.9
#3	6753.7	41563.	9018.3

Sample Name: lcssrm 460-523915/2- Acquired: 6/1/2018 2:31:14 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34370.	278.0	234.5	919.7	282.4	20920.
Stddev	385.	4.1	2.4	9.3	3.4	160.
%RSD	1.121	1.484	1.006	1.009	1.190	.7647
#1	33950.	274.0	232.8	909.1	278.7	20740.
#2	34470.	277.8	237.2	923.7	283.5	21060.
#3	34700.	282.2	233.4	926.3	285.1	20940.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1247.	226.5	332.3	532.3	76100.	8342.
Stddev	13.	2.2	1.7	4.2	582.	63.
%RSD	1.067	.9914	.5074	.7936	.7647	.7606
#1	1232.	224.0	330.6	529.9	75480.	8294.
#2	1252.	227.4	333.9	537.2	76640.	8317.
#3	1257.	228.2	332.4	529.9	76170.	8414.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9854.	1136.	11010.	772.4	828.2	803.4
Stddev	92.	8.	100.	7.6	9.1	7.6
%RSD	.9316	.6823	.9090	.9780	1.101	.9497
#1	9769.	1129.	10890.	764.0	819.1	796.6
#2	9951.	1144.	11050.	774.4	828.3	801.8
#3	9841.	1136.	11080.	778.7	837.3	811.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcssrm 460-523915/2- Acquired: 6/1/2018 2:31:14 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	690.6	1013.	617.2	610.6	594.4	392.9
Stddev	9.6	15.	5.1	7.9	11.0	6.6
%RSD	1.390	1.457	.8247	1.291	1.843	1.685
#1	681.8	998.5	613.3	601.7	584.9	386.3
#2	689.2	1014.	622.9	613.6	592.0	392.7
#3	700.9	1028.	615.2	616.6	606.4	399.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	729.1	435.1	3543.	1306.
Stddev	12.7	4.1	27.	13.
%RSD	1.736	.9386	.7624	1.016
#1	716.7	430.6	3520.	1321.
#2	728.5	436.4	3573.	1301.
#3	742.0	438.5	3536.	1297.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7175.5	44423.	9237.7
Stddev	39.1	175.	68.6
%RSD	.54541	.39327	.74222
#1	7220.3	44360.	9313.5
#2	7158.2	44288.	9219.6
#3	7148.0	44620.	9180.0

Sample Name: 460-156942-b-1-d.ms Acquired: 6/1/2018 2:38:32 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39520.	1005.	23.62	1569.	27.87	F 297300.
Stddev	146.	3.	.47	4.	.08	1248.
%RSD	.3684	.2672	1.972	.2450	.2870	.4199

#1	39570.	1002.	24.14	1565.	27.83	298700.
#2	39360.	1008.	23.25	1573.	27.83	296400.
#3	39630.	1005.	23.48	1568.	27.97	296800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25.97	279.5	207.6	278.9	61440.	15930.
Stddev	.10	.6	.9	.4	218.	71.
%RSD	.3717	.2076	.4562	.1517	.3545	.4475

#1	26.08	280.1	208.6	278.5	61670.	15980.
#2	25.89	279.3	207.3	278.8	61240.	15850.
#3	25.94	279.0	206.8	279.3	61410.	15980.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38850.	2545.	12560.	319.4	581.8	244.7
Stddev	176.	7.	38.	.4	1.3	1.6
%RSD	.4519	.2850	.3040	.1216	.2302	.6524

#1	39050.	2554.	12540.	319.8	582.0	243.0
#2	38740.	2541.	12540.	319.5	580.4	245.2
#3	38760.	2542.	12610.	319.0	583.0	246.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156942-b-1-d.ms Acquired: 6/1/2018 2:38:32 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	993.3	1052.	368.6	1157.	355.8	262.4
Stddev	6.9	12.	.7	8.	3.9	2.8
%RSD	.6941	1.173	.1950	.6716	1.107	1.066
#1	1001.	1066.	369.3	1165.	360.3	265.7
#2	989.2	1042.	367.9	1150.	353.0	261.0
#3	989.6	1048.	368.7	1155.	354.0	260.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	266.2	1410.	2357.	1375.
Stddev	3.2	4.	3.	34.
%RSD	1.204	.2982	.1463	2.501
#1	269.9	1410.	2357.	1340.
#2	264.2	1406.	2354.	1377.
#3	264.5	1415.	2361.	1408.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6843.4	42288.	8983.9
Stddev	43.1	413.	116.6
%RSD	.63026	.97668	1.2978
#1	6799.0	41828.	8850.0
#2	6845.8	42408.	9039.0
#3	6885.2	42627.	9062.8

Sample Name: 460-156942-b-1-b@4 Acquired: 6/1/2018 2:46:05 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39970.	18.99	.6035	518.0	2.987	F 290200.
Stddev	511.	2.42	.1906	12.6	.055	12990.
%RSD	1.278	12.72	31.58	2.440	1.834	4.476

#1	39380.	16.25	.5346	508.7	2.927	279000.
#2	40240.	19.92	.8190	512.9	3.002	287200.
#3	40290.	20.81	.4570	532.4	3.033	304400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2037	23.02	99.51	143.1	62830.	5923.
Stddev	.3141	.65	4.23	6.2	2778.	89.
%RSD	154.2	2.820	4.251	4.307	4.421	1.494

#1	.1106	22.61	95.67	137.9	60460.	5828.
#2	-.2040	22.69	98.82	141.5	62150.	6004.
#3	-.5176	23.77	104.0	149.9	65880.	5937.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35030.	1566.	2641.	64.90	342.9	-2.244
Stddev	1600.	70.	38.	1.80	11.4	2.855
%RSD	4.567	4.480	1.425	2.779	3.309	127.2

#1	33670.	1506.	2598.	63.55	337.1	-5.206
#2	34640.	1548.	2656.	64.20	335.7	-2.014
#3	36790.	1643.	2668.	66.95	356.0	.4895

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156942-b-1-b@4 Acquired: 6/1/2018 2:46:05 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.771	-.0976	118.8	704.1	114.7	4.234
Stddev	3.614	3.134	5.3	17.9	2.5	.212
%RSD	130.4	3211.	4.485	2.545	2.193	5.005
#1	.8515	3.518	114.1	691.1	113.3	4.031
#2	-2.789	-2.036	117.7	696.8	113.2	4.218
#3	-6.376	-1.775	124.6	724.6	117.6	4.454

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	24.62	1165.	2024.	846.4
Stddev	.68	12.	94.	35.7
%RSD	2.746	.9896	4.653	4.222
#1	23.85	1151.	1946.	821.4
#2	24.91	1171.	1997.	830.5
#3	25.11	1172.	2128.	887.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6826.1	41639.	8919.7
Stddev	135.3	1324.	85.2
%RSD	1.9822	3.1800	.95521
#1	6910.4	42741.	9017.9
#2	6897.9	42008.	8865.1
#3	6670.0	40170.	8876.1

Sample Name: 460-156914-a-3-g@4 Acquired: 6/1/2018 3:24:55 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15750.	5.655	-1.057	115.8	2.072	23120.
Stddev	133.	1.997	.129	.9	.052	131.
%RSD	.8418	35.32	12.22	.8204	2.535	.5681

#1	15900.	3.504	-1.193	116.6	2.127	23260.
#2	15670.	6.010	-1.041	115.9	2.023	23000.
#3	15670.	7.450	-.9357	114.7	2.064	23090.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.256	16.07	30.31	30.94	73610.	4616.
Stddev	.248	.10	.26	.47	463.	16.
%RSD	10.97	.6161	.8739	1.504	.6291	.3366

#1	-2.174	16.18	30.40	31.23	74140.	4614.
#2	-2.060	16.04	30.01	30.41	73290.	4632.
#3	-2.534	15.99	30.52	31.20	73390.	4601.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10470.	807.7	642.3	21.08	24.63	-5.429
Stddev	54.	4.8	10.3	.24	.76	1.462
%RSD	.5179	.5946	1.610	1.126	3.067	26.93

#1	10530.	813.2	650.8	21.35	25.33	-4.567
#2	10430.	804.7	645.1	20.92	24.74	-7.117
#3	10450.	805.1	630.8	20.96	23.83	-4.603

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-3-g@4 Acquired: 6/1/2018 3:24:55 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.840	-2.203	50.92	121.6	61.76	4.469
Stddev	.889	2.077	.31	.5	1.51	.303
%RSD	18.37	94.27	.6071	.3705	2.446	6.774

#1	-5.305	-2.735	51.08	122.1	62.99	4.252
#2	-5.401	.0878	50.56	121.6	62.21	4.815
#3	-3.815	-3.963	51.12	121.2	60.07	4.340

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.197	41.47	1304.	817.3
Stddev	.084	.35	9.	8.0
%RSD	1.349	.8384	.7093	.9751

#1	6.282	41.83	1315.	823.5
#2	6.195	41.43	1301.	820.1
#3	6.115	41.14	1297.	808.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7676.0	46996.	9632.9
Stddev	32.6	275.	39.9
%RSD	.42468	.58482	.41418

#1	7641.3	46740.	9609.5
#2	7705.9	47286.	9679.0
#3	7680.8	46961.	9610.2

Sample Name: CCVL Acquired: 6/1/2018 3:13:04 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	185.2	13.58	8.496	187.8	1.756	4374.
Stddev	7.5	.70	.396	5.9	.078	164.
%RSD	4.068	5.167	4.665	3.134	4.419	3.745

#1	187.7	14.39	8.093	182.6	1.708	4250.
#2	176.8	13.21	8.511	186.6	1.714	4312.
#3	191.2	13.15	8.885	194.2	1.845	4560.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.850	46.42	10.59	21.03	152.8	4135.
Stddev	.171	1.80	.32	.90	6.1	208.
%RSD	4.434	3.875	2.988	4.265	3.962	5.021

#1	3.751	44.86	10.24	20.17	148.1	4002.
#2	3.753	46.02	10.87	20.97	150.7	4029.
#3	4.047	48.39	10.66	21.96	159.6	4374.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4329.	14.82	4256.	39.43	9.504	19.81
Stddev	179.	.72	161.	1.70	1.553	.32
%RSD	4.130	4.864	3.793	4.298	16.34	1.637

#1	4199.	14.40	4186.	38.36	9.735	19.43
#2	4254.	14.42	4141.	38.54	7.849	19.98
#3	4533.	15.66	4441.	41.38	10.93	20.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 3:13:04 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.89	22.28	44.46	30.18	42.20	18.03
Stddev	2.35	1.27	1.71	1.03	2.13	.76
%RSD	13.92	5.697	3.856	3.417	5.049	4.205
#1	14.24	22.77	43.13	29.27	40.14	17.38
#2	17.70	23.23	43.86	29.97	42.06	17.84
#3	18.72	20.84	46.39	31.30	44.39	18.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	45.74	17.89	18.83	F -14.02
Stddev	1.54	.87	.62	20.47
%RSD	3.372	4.859	3.304	146.0
#1	44.19	17.47	18.38	-28.03
#2	45.74	17.30	18.58	-23.50
#3	47.28	18.88	19.54	9.471

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7160.4	43839.	8919.7
Stddev	180.9	1364.	287.5
%RSD	2.5261	3.1103	3.2238
#1	7317.3	45005.	9061.6
#2	7201.3	44172.	9108.7
#3	6962.6	42340.	8588.8

Sample Name: 460-156942-a-3-a@4 Acquired: 6/1/2018 2:53:49 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27060.	19.63	-9907	368.9	2.678	21520.
Stddev	293.	1.18	.0774	1.5	.071	67.
%RSD	1.084	6.032	7.809	.4050	2.645	.3128

#1	27400.	19.35	-.9074	370.6	2.703	21600.
#2	26910.	20.93	-1.060	367.8	2.733	21490.
#3	26870.	18.61	-1.004	368.3	2.598	21470.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.772	37.03	66.95	86.89	75890.	4313.
Stddev	.060	.23	.21	.67	235.	68.
%RSD	3.396	.6243	.3154	.7681	.3096	1.588

#1	-1.702	36.77	66.95	87.36	76160.	4380.
#2	-1.811	37.12	67.16	87.17	75790.	4315.
#3	-1.801	37.21	66.73	86.12	75720.	4243.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8951.	1043.	798.2	86.12	78.83	-2.811
Stddev	43.	3.	10.9	.39	.53	1.082
%RSD	.4819	.3282	1.362	.4525	.6681	38.50

#1	9001.	1047.	810.8	86.48	78.67	-1.668
#2	8932.	1041.	791.9	86.18	79.42	-2.944
#3	8921.	1042.	792.0	85.71	78.41	-3.820

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156942-a-3-a@4 Acquired: 6/1/2018 2:53:49 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.568	.2092	104.1	221.4	26.91	5.695
Stddev	1.760	1.538	.5	.8	.26	.119
%RSD	112.2	735.1	.5024	.3644	.9680	2.082
#1	-.3881	.5422	104.6	220.6	26.61	5.778
#2	-3.591	-1.468	104.1	221.3	27.10	5.559
#3	-.7263	1.553	103.5	222.2	27.02	5.749

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	14.83	255.4	1239.	969.9
Stddev	.17	2.4	4.	9.5
%RSD	1.152	.9273	.3306	.9813
#1	14.72	258.0	1243.	980.7
#2	15.03	254.8	1238.	962.7
#3	14.75	253.4	1235.	966.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7175.8	44060.	9044.8
Stddev	45.3	316.	150.1
%RSD	.63098	.71754	1.6593
#1	7123.6	43710.	8872.4
#2	7199.6	44146.	9115.6
#3	7204.2	44325.	9146.4

Sample Name: 460-156914-a-11-e@4 Acquired: 6/1/2018 3:40:34 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19820.	5.448	-1.168	129.9	2.107	31030.
Stddev	157.	.281	.243	.8	.074	141.
%RSD	.7898	5.167	20.78	.5842	3.499	.4537
#1	19780.	5.272	-.9533	129.5	2.029	30890.
#2	19690.	5.300	-1.432	129.4	2.175	31040.
#3	19990.	5.773	-1.120	130.7	2.115	31170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.565	24.21	39.20	95.75	84320.	5147.
Stddev	.095	.45	.19	.39	424.	45.
%RSD	3.693	1.874	.4756	.4098	.5026	.8656
#1	-2.623	23.72	38.98	95.29	83920.	5108.
#2	-2.616	24.29	39.27	95.98	84290.	5136.
#3	-2.455	24.62	39.34	95.96	84760.	5196.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13410.	982.7	1718.	35.03	51.74	-6.749
Stddev	47.	5.2	21.	.58	1.27	.457
%RSD	.3516	.5307	1.237	1.659	2.462	6.772
#1	13360.	978.8	1722.	34.38	50.54	-7.137
#2	13410.	980.7	1695.	35.17	53.07	-6.865
#3	13450.	988.6	1737.	35.52	51.61	-6.245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-11-e@4 Acquired: 6/1/2018 3:40:34 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.478	-1.238	78.47	133.2	117.4	5.763
Stddev	2.212	.990	1.11	2.1	.6	.172
%RSD	63.60	79.98	1.415	1.604	.4808	2.983
#1	-4.038	-2.178	78.24	130.8	116.8	5.726
#2	-5.357	-.2048	79.68	134.5	117.3	5.950
#3	-1.040	-1.331	77.50	134.4	118.0	5.612

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.721	58.81	2209.	653.5
Stddev	.431	.45	18.	10.3
%RSD	7.539	.7584	.8198	1.578
#1	5.359	58.55	2196.	649.3
#2	6.198	58.56	2202.	645.9
#3	5.606	59.33	2230.	665.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7538.8	46142.	9478.7
Stddev	21.7	326.	64.1
%RSD	.28813	.70551	.67630
#1	7515.3	45798.	9404.9
#2	7558.2	46182.	9510.5
#3	7542.8	46446.	9520.6

Sample Name: 460-156914-a-12-e@4 Acquired: 6/1/2018 3:44:25 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49830.	1.613	-9909	104.5	3.211	61370.
Stddev	159.	1.329	.5002	.5	.064	379.
%RSD	.3194	82.42	50.47	.5051	2.004	.6180

#1	49660.	.1035	-.5492	104.4	3.246	61710.
#2	49830.	2.126	-1.534	104.1	3.251	60960.
#3	49980.	2.609	-.8896	105.1	3.137	61430.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.984	62.91	82.99	368.6	115500.	2670.
Stddev	.032	.22	.26	2.5	682.	14.
%RSD	1.087	.3508	.3103	.6916	.5906	.5159

#1	-3.019	62.68	83.25	371.5	116100.	2654.
#2	-2.956	62.91	82.99	366.7	114800.	2679.
#3	-2.977	63.13	82.74	367.7	115600.	2676.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49220.	1709.	4232.	141.6	16.44	-9.353
Stddev	319.	10.	12.	.4	.50	.579
%RSD	.6481	.6059	.2878	.3159	3.028	6.190

#1	49560.	1719.	4219.	141.2	16.66	-9.096
#2	48920.	1698.	4237.	142.0	15.87	-8.947
#3	49190.	1709.	4241.	141.7	16.78	-10.02

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-12-e@4 Acquired: 6/1/2018 3:44:25 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.429	-.9579	209.7	141.5	1702.	2.340
Stddev	2.241	2.444	.9	.6	5.	.282
%RSD	50.59	255.1	.4363	.4160	.3118	12.04
#1	-1.912	1.459	210.4	140.9	1702.	2.023
#2	-6.207	-3.428	208.6	141.7	1697.	2.436
#3	-5.168	-.9049	210.0	142.0	1707.	2.561

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.232	125.5	6668.	650.9
Stddev	.183	.8	47.	7.9
%RSD	2.218	.6593	.7116	1.217
#1	8.367	125.4	6722.	642.2
#2	8.305	124.7	6634.	652.6
#3	8.025	126.3	6649.	657.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7235.6	44198.	9019.6
Stddev	52.2	578.	95.3
%RSD	.72173	1.3069	1.0569
#1	7176.1	43539.	9129.5
#2	7256.7	44436.	8959.4
#3	7273.9	44619.	8969.9

Sample Name: 460-156914-a-18-h@4 Acquired: 6/1/2018 4:11:34 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28140.	16.43	-7.524	215.3	2.344	9818.
Stddev	108.	1.67	.1245	2.9	.066	40.
%RSD	.3823	10.16	16.55	1.327	2.825	.4108

#1	28220.	15.22	-6.757	212.3	2.387	9813.
#2	28010.	15.74	-8.961	215.7	2.268	9781.
#3	28180.	18.34	-6.854	218.0	2.377	9861.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.569	31.62	72.43	100.2	62790.	5553.
Stddev	.078	.29	.60	1.0	259.	23.
%RSD	4.959	.9157	.8248	1.038	.4120	.4138

#1	-1.658	31.45	73.10	101.4	62760.	5553.
#2	-1.515	31.46	71.95	99.38	62550.	5530.
#3	-1.533	31.95	72.26	99.83	63060.	5575.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15660.	1582.	1286.	197.9	161.9	-4.799
Stddev	82.	7.	3.	3.6	2.2	1.214
%RSD	.5255	.4663	.2516	1.814	1.329	25.30

#1	15700.	1581.	1288.	194.9	161.2	-5.074
#2	15570.	1575.	1288.	197.0	160.2	-3.471
#3	15720.	1590.	1282.	201.9	164.3	-5.852

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-18-h@4 Acquired: 6/1/2018 4:11:34 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.946	-2.883	103.3	271.6	13.98	.6755
Stddev	1.722	.937	.5	8.9	1.00	.3318
%RSD	43.63	32.49	.4429	3.259	7.123	49.12
#1	-4.012	-3.061	103.4	264.1	13.64	.8064
#2	-2.192	-3.717	102.8	269.4	13.20	.2982
#3	-5.633	-1.870	103.7	281.4	15.10	.9220

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.659	47.47	1620.	813.9
Stddev	.639	.17	9.	7.2
%RSD	6.621	.3597	.5532	.8797
#1	10.15	47.61	1623.	807.9
#2	8.935	47.28	1610.	812.0
#3	9.896	47.52	1627.	821.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7317.8	44562.	9094.8
Stddev	12.5	274.	59.7
%RSD	.17127	.61394	.65663
#1	7317.1	44249.	9026.0
#2	7305.7	44682.	9132.6
#3	7330.7	44754.	9125.9

Sample Name: CCB Acquired: 6/1/2018 3:59:46 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5662	.7067	-.0442	.3385	.0148	-.6413
Stddev	5.973	1.090	.1619	.1689	.0672	6.162
%RSD	1055.	154.2	366.0	49.88	455.5	960.9
#1	2.725	-.4542	-.1684	.5330	.0893	3.618
#2	-7.461	1.707	-.1031	.2286	-.0412	2.165
#3	3.037	.8670	.1389	.2541	-.0039	-7.707

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0941	.0184	.2028	-.9482	5.390	-13.64
Stddev	.0274	.1162	.5004	.3705	16.34	8.38
%RSD	29.16	632.1	246.8	39.07	303.2	61.46
#1	.1258	-.0663	.5220	-.6800	23.42	-19.82
#2	.0785	.1508	-.3739	-.7936	-8.458	-4.097
#3	.0781	-.0294	.4602	-1.371	1.213	-17.00

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.807	.2664	38.45	.3832	.0417	.5618
Stddev	4.713	.0823	9.66	.1931	.7033	1.905
%RSD	260.8	30.90	25.12	50.39	1686.	339.0
#1	3.616	.3518	46.78	.5886	-.7638	2.573
#2	-4.123	.1876	27.86	.3556	.5339	.3273
#3	-4.914	.2597	40.71	.2054	.3551	-1.215

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 3:59:46 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3351	2.663	.2130	1.297	4.116	1.084
Stddev	.7409	1.346	.4868	.136	1.505	.444
%RSD	221.1	50.55	228.5	10.51	36.56	40.97
#1	.1419	4.100	.1157	1.215	2.855	1.562
#2	-1.189	2.458	.7411	1.221	3.711	1.004
#3	.0415	1.431	-.2178	1.454	5.782	.6849

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1800	.2165	2.340	4.099
Stddev	.7177	.1074	1.243	10.21
%RSD	398.7	49.60	53.11	249.0
#1	.8707	.3301	3.741	13.76
#2	.2313	.1166	1.908	5.110
#3	-.5619	.2030	1.371	-6.576

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7078.9	42655.	8718.7
Stddev	126.5	686.	149.2
%RSD	1.7868	1.6075	1.7114
#1	7224.3	43435.	8803.5
#2	7017.7	42145.	8806.1
#3	6994.6	42386.	8546.4

Sample Name: 460-156914-a-15-h@4 Acquired: 6/1/2018 3:48:13 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 4365.	k 3.197	s -4907	k 50.23	k .4658	s 8287.
Stddev	7535.	2.510	.4037	44.07	1.074	9778.
%RSD	172.6	78.51	82.28	87.74	230.6	118.0

#1	k 30.86	k 2.323	s -.1356	k -.0231	k -.2729	s 135.7
#2	k -1.612	k 1.241	k -.4066	k 68.42	k -.0276	5598.
#3	13070.	6.026	-.9298	82.30	1.698	19130.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k 1.839	k 9.498	s 9.211	s 15.97	^ *****	k 1171.
Stddev	4.951	8.377	10.78	24.12	-----	2514.
%RSD	269.1	88.20	117.1	151.1	-----	214.6

#1	k .1173	k -.1752	s .4010	s -2.498	s 5.589	k -540.9
#2	k 7.421	k 14.29	k 5.996	k 7.144	^ -----	k -2.702
#3	-2.020	14.38	21.24	43.26	65440.	4057.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	s 3569.	s 258.8	k 130.3	k 10.06	k 10.42	k -1.294
Stddev	4304.	311.1	367.1	8.57	8.96	2.991
%RSD	120.6	120.2	281.7	85.16	85.99	231.1

#1	s -3.823	s -.0302	k -159.7	k .3743	k .1325	k -1.104
#2	k 2365.	k 172.5	k 7.638	k 13.16	k 14.61	k 1.597
#3	8347.	603.9	543.0	16.64	16.52	-4.376

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-15-h@4 Acquired: 6/1/2018 3:48:13 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	k -6.887	k 1.267	s 20.14	k 67.89	k 5.043	k 1.253
Stddev	1.226	3.559	25.65	60.46	20.46	1.396
%RSD	17.81	281.0	127.4	89.05	405.8	111.4
#1	k -6.689	k 5.080	s .0457	k -1.045	k -17.35	k -.3029
#2	k -8.200	k .6861	k 11.33	k 92.84	k 9.700	k 1.666
#3	-5.771	-1.966	49.04	111.9	22.78	2.396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	k 3.646	k 8.335	^ *****	k -9.752
Stddev	3.520	14.07	-----	694.9
%RSD	96.54	168.7	-----	7126.
#1	k -.3798	k .5299	s 1.220	k -564.2
#2	k 5.174	k -.0963	^ -----	k -234.8
#3	6.143	24.57	1135.	769.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	14079.	^ *****	14424.
Stddev	10668.	-----	15357.
%RSD	75.774	-----	106.47
#1	26384.	^ -----	2133.8
#2	8443.3	79466.	31640.
#3	7410.9	45678.	9499.4

Sample Name: 460-156914-a-16-h@4 Acquired: 6/1/2018 3:52:10 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14470.	7.241	-1.276	106.8	1.479	23860.
Stddev	143.	.434	.371	.8	.024	96.
%RSD	.9857	5.999	29.07	.7597	1.606	.4015

#1	14350.	7.480	-.9452	105.9	1.455	23840.
#2	14450.	7.504	-1.205	106.9	1.480	23770.
#3	14630.	6.740	-1.677	107.5	1.503	23960.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.313	22.57	32.23	76.98	71030.	4693.
Stddev	.156	.17	.54	.76	448.	62.
%RSD	6.745	.7521	1.677	.9820	.6312	1.311

#1	-2.436	22.38	31.67	76.18	70840.	4624.
#2	-2.366	22.71	32.25	77.08	70700.	4742.
#3	-2.138	22.63	32.75	77.68	71540.	4713.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9300.	724.3	548.1	27.14	45.77	-4.672
Stddev	41.	4.6	5.3	.54	.61	.734
%RSD	.4370	.6348	.9626	2.002	1.338	15.71

#1	9285.	722.4	550.2	26.56	45.93	-5.183
#2	9268.	720.9	542.1	27.24	45.09	-5.002
#3	9346.	729.5	552.0	27.63	46.29	-3.831

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-16-h@4 Acquired: 6/1/2018 3:52:10 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.799	-3.510	66.83	133.4	37.14	14.32
Stddev	1.397	.906	.69	1.6	.19	.58
%RSD	77.64	25.82	1.032	1.165	.5203	4.081
#1	-2.876	-4.552	66.88	131.8	37.01	14.27
#2	-2.067	-3.080	66.12	133.5	37.04	13.76
#3	-3.043	-2.899	67.49	134.9	37.36	14.92

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.130	37.18	1252.	886.7
Stddev	.364	.14	7.	12.4
%RSD	5.108	.3755	.5728	1.399
#1	7.235	37.02	1247.	872.4
#2	6.725	37.25	1248.	892.9
#3	7.430	37.27	1260.	894.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7330.4	44690.	9176.9
Stddev	16.2	358.	66.6
%RSD	.22091	.80090	.72577
#1	7311.7	44285.	9105.1
#2	7338.9	44964.	9236.7
#3	7340.5	44820.	9189.0

Sample Name: 460-156914-b-22-e@4 Acquired: 6/1/2018 4:26:59 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	91390.	1.907	-1.454	109.0	4.568	85190.
Stddev	507.	1.762	.447	.6	.029	1147.
%RSD	.5553	92.40	30.71	.5096	.6356	1.347
#1	90910.	3.388	-.9414	108.5	4.537	83960.
#2	91350.	2.373	-1.756	109.0	4.575	85350.
#3	91920.	-.0413	-1.666	109.6	4.594	86240.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.592	119.9	187.8	696.5	185700.	817.0
Stddev	.128	1.3	2.1	3.7	2279.	6.4
%RSD	2.781	1.069	1.097	.5363	1.227	.7827
#1	-4.466	118.8	185.5	692.9	183300.	817.2
#2	-4.590	119.7	188.4	696.4	185900.	823.3
#3	-4.721	121.3	189.5	700.3	187800.	810.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	80200.	3913.	3264.	227.2	16.69	-17.94
Stddev	1108.	46.	10.	2.8	.43	1.53
%RSD	1.381	1.180	.2946	1.213	2.579	8.539
#1	79010.	3865.	3273.	224.4	17.15	-16.17
#2	80390.	3917.	3254.	227.5	16.30	-18.86
#3	81190.	3957.	3264.	229.9	16.61	-18.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-b-22-e@4 Acquired: 6/1/2018 4:26:59 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.724	-6.247	395.6	217.0	1235.	1.417
Stddev	4.382	.605	3.8	2.4	6.	.389
%RSD	56.74	9.687	.9582	1.098	.4540	27.43
#1	-2.920	-6.163	391.3	216.5	1229.	.9719
#2	-8.750	-6.890	397.1	219.6	1234.	1.590
#3	-11.50	-5.688	398.4	214.9	1240.	1.690

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.577	143.6	9772.	913.7
Stddev	.255	.7	86.	13.3
%RSD	2.666	.5001	.8773	1.453
#1	9.310	143.2	9674.	902.1
#2	9.819	143.2	9810.	910.8
#3	9.600	144.4	9832.	928.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7100.3	43546.	9048.9
Stddev	14.7	268.	27.6
%RSD	.20753	.61507	.30461
#1	7117.2	43853.	9074.1
#2	7093.4	43431.	9053.1
#3	7090.2	43355.	9019.4

Sample Name: 460-157038-k-1-b.ms Acquired: 6/1/2018 4:38:31 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4840.	2125.	50.37	2166.	49.28	205300.
Stddev	13.	4.	.85	4.	.26	1082.
%RSD	.2738	.1826	1.691	.1626	.5295	.5271

#1	4853.	2126.	50.99	2163.	49.58	206100.
#2	4827.	2121.	49.40	2167.	49.08	204100.
#3	4838.	2128.	50.72	2170.	49.19	205600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.23	534.2	225.8	348.8	6988.	43020.
Stddev	.13	.7	3.2	4.7	93.	333.
%RSD	.2471	.1376	1.399	1.361	1.324	.7742

#1	54.08	533.4	228.7	351.5	7027.	43340.
#2	54.33	534.2	222.4	343.3	6883.	42680.
#3	54.27	534.9	226.3	351.5	7055.	43060.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	119600.	2192.	F 285700.	1272.	510.4	516.1
Stddev	566.	10.	3841.	4.	2.3	.9
%RSD	.4733	.4402	1.344	.3132	.4532	.1768

#1	120000.	2199.	290000.	1267.	508.9	515.4
#2	118900.	2181.	284400.	1274.	513.1	515.8
#3	119700.	2196.	282700.	1275.	509.2	517.1

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-157038-k-1-b.ms Acquired: 6/1/2018 4:38:31 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2171.	2090.	532.9	603.4	581.5	513.6
Stddev	4.	7.	5.6	2.0	1.5	1.4
%RSD	.1774	.3558	1.057	.3233	.2648	.2695

#1	2169.	2094.	537.5	601.3	580.4	512.1
#2	2170.	2094.	526.6	604.0	580.8	513.9
#3	2176.	2081.	534.6	605.1	583.2	514.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	520.4	745.4	852.2	11480.
Stddev	1.5	4.3	2.9	8.
%RSD	.2804	.5775	.3444	.0697

#1	518.7	749.3	853.6	11470.
#2	521.2	740.8	848.8	11490.
#3	521.4	746.0	854.1	11470.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6710.3	40696.	8833.4
Stddev	18.8	147.	28.4
%RSD	.28033	.36005	.32160

#1	6732.0	40775.	8824.0
#2	6700.4	40785.	8865.3
#3	6698.4	40527.	8810.8

Sample Name: 460-156914-a-19-h@4 Acquired: 6/1/2018 4:15:23 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28740.	14.07	-6597	245.6	2.710	16050.
Stddev	319.	1.91	.2007	3.5	.067	82.
%RSD	1.110	13.60	30.42	1.418	2.464	.5136

#1	28730.	12.17	-.6145	243.7	2.782	16130.
#2	28430.	14.03	-.4855	243.4	2.650	15970.
#3	29060.	16.00	-.8791	249.6	2.699	16060.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.161	41.69	82.90	120.6	66830.	5348.
Stddev	.200	.66	.67	.5	414.	62.
%RSD	17.25	1.577	.8118	.4170	.6196	1.153

#1	-1.384	41.10	83.66	120.0	67220.	5308.
#2	-1.103	41.56	82.69	120.7	66400.	5317.
#3	-.9961	42.40	82.36	121.0	66860.	5419.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18710.	3175.	1120.	343.2	160.7	-6.206
Stddev	104.	17.	9.	7.0	2.3	.309
%RSD	.5543	.5499	.7604	2.032	1.456	4.979

#1	18820.	3191.	1118.	335.8	158.1	-6.562
#2	18620.	3157.	1112.	344.1	161.3	-6.053
#3	18700.	3177.	1129.	349.7	162.6	-6.004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-156914-a-19-h@4 Acquired: 6/1/2018 4:15:23 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.510	-.5008	109.1	263.2	14.52	1.051
Stddev	2.289	2.499	.3	9.8	1.43	.192
%RSD	91.22	498.9	.2835	3.712	9.883	18.26
#1	-1.059	-1.998	108.9	251.9	13.20	.8328
#2	-5.149	-1.888	109.1	268.8	16.05	1.194
#3	-1.321	2.384	109.5	268.9	14.31	1.126

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.023	54.79	1708.	885.8
Stddev	.208	.92	6.	29.0
%RSD	2.305	1.685	.3597	3.271
#1	9.002	54.75	1714.	854.8
#2	9.240	53.89	1702.	890.2
#3	8.826	55.74	1707.	912.2

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7214.7	44215.	9030.9
Stddev	63.3	614.	146.7
%RSD	.87719	1.3894	1.6248
#1	7237.7	43506.	8899.9
#2	7263.2	44559.	9189.4
#3	7143.1	44581.	9003.4

Sample Name: CCVL Acquired: 6/1/2018 4:53:40 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	180.8	15.44	8.475	187.7	1.728	4441.
Stddev	12.6	.87	.252	6.9	.034	133.
%RSD	6.966	5.637	2.976	3.651	1.963	2.996

#1	170.1	14.79	8.429	181.9	1.716	4343.
#2	177.6	15.10	8.250	186.0	1.766	4388.
#3	194.6	16.43	8.747	195.3	1.701	4593.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.982	46.84	10.76	21.08	162.9	4210.
Stddev	.199	1.89	.45	.80	7.8	85.
%RSD	4.988	4.038	4.182	3.799	4.795	2.028

#1	3.757	45.15	10.35	20.76	157.8	4133.
#2	4.052	46.48	10.69	20.50	159.0	4196.
#3	4.135	48.88	11.24	21.99	171.9	4302.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4458.	15.46	4285.	40.48	9.779	19.07
Stddev	126.	.52	118.	1.69	.933	.92
%RSD	2.820	3.335	2.742	4.168	9.537	4.843

#1	4395.	15.41	4205.	39.39	9.359	18.10
#2	4377.	14.97	4229.	39.62	9.130	19.93
#3	4603.	16.00	4420.	42.42	10.85	19.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 6/1/2018 4:53:40 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16.92	22.16	46.15	31.71	46.07	18.95
Stddev	1.66	1.77	1.25	1.99	3.58	.96
%RSD	9.791	8.004	2.716	6.269	7.776	5.078
#1	15.84	20.19	46.20	29.75	42.55	18.03
#2	16.09	22.66	44.87	31.67	45.95	18.87
#3	18.83	23.63	47.38	33.72	49.72	19.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	47.08	18.04	19.57	F -5.605
Stddev	3.29	.31	.52	8.304
%RSD	6.992	1.725	2.634	148.2
#1	43.81	17.97	19.90	-12.48
#2	47.03	17.76	18.97	-7.952
#3	50.40	18.38	19.83	3.620

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7190.2	43517.	8761.2
Stddev	215.4	1109.	211.9
%RSD	2.9955	2.5491	2.4181
#1	7374.0	44379.	8903.6
#2	7243.3	43907.	8862.2
#3	6953.2	42266.	8517.7

Sample Name: mb 460-523775/1-a Acquired: 6/1/2018 4:57:38 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.380	.4131	-.1730	.0754	-.0162	-7.205
Stddev	3.991	.7006	.3230	.0758	.0936	7.086
%RSD	118.1	169.6	186.6	100.5	578.6	98.35
#1	-7.518	-.3638	-.0477	.0025	-.0387	-14.98
#2	.4455	.9969	.0685	.1538	.0866	-5.519
#3	-3.069	.6062	-.5399	.0699	-.0965	-1.114

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0041	-.2102	.1437	-1.766	3.652	-7.252
Stddev	.0767	.0660	.1050	.210	7.434	51.55
%RSD	1893.	31.41	73.05	11.90	203.6	710.9
#1	.0675	-.1777	.2464	-1.921	9.392	34.68
#2	.0054	-.2861	.0366	-1.849	-4.746	-64.81
#3	-.0851	-.1666	.1482	-1.527	6.310	8.379

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.488	.0873	25.41	-.0003	.0692	1.456
Stddev	5.895	.0416	11.75	.4412	.4534	1.371
%RSD	236.9	47.67	46.26	176000.	655.2	94.20
#1	-6.540	.0828	38.74	.4345	-.3720	.4106
#2	4.275	.1311	20.93	-.4476	.5340	3.008
#3	-5.199	.0482	16.55	.0124	.0456	.9480

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: mb 460-523775/1-a Acquired: 6/1/2018 4:57:38 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.895	1.496	-1.1381	-1.127	2.057	.0596
Stddev	3.074	.455	.2051	.004	.380	.1492
%RSD	162.2	30.43	148.5	.3796	18.45	250.2
#1	.2918	.9750	.0987	-1.131	1.742	-.0729
#2	-.5666	1.818	-.2535	-1.127	1.949	.0306
#3	-5.409	1.694	-.2596	-1.123	2.478	.2212

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0638	.0503	.2574	-20.40
Stddev	.3041	.0669	.1035	17.95
%RSD	476.5	133.1	40.21	87.97
#1	-.4066	.1076	.3704	-28.14
#2	.1738	-.0232	.1673	-33.19
#3	.0414	.0663	.2344	.1164

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7213.3	43840.	8830.6
Stddev	87.9	93.	58.3
%RSD	1.2188	.21218	.66076
#1	7253.0	43747.	8779.6
#2	7274.4	43933.	8818.1
#3	7112.6	43840.	8894.3

Sample Name: 460-157038-k-3-a Acquired: 6/1/2018 5:25:12 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.350	1.529	-.0186	-.0021	-.0007	29.79
Stddev	7.396	1.483	.1164	.0899	.0454	17.81
%RSD	220.8	97.02	626.3	4199.	6199.	59.80
#1	1.381	1.539	-.0287	.0091	-.0528	49.80
#2	-2.863	.0404	-.1296	-.0971	.0201	23.94
#3	11.53	3.007	.1026	.0815	.0304	15.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0740	-.0811	.0317	-1.722	40.13	6.781
Stddev	.0636	.0800	.3256	.114	7.05	34.94
%RSD	86.02	98.60	1028.	6.607	17.58	515.2
#1	.0263	-.0796	-.2626	-1.837	36.41	24.75
#2	.1462	-.1618	-.0239	-1.609	35.72	-33.48
#3	.0493	-.0019	.3815	-1.721	48.27	29.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.344	.2903	70.26	.4286	.1948	1.264
Stddev	3.967	.0958	22.55	.1192	.8784	1.306
%RSD	118.6	33.00	32.09	27.82	450.9	103.3
#1	-.8545	.3622	96.28	.3808	-.4710	1.455
#2	3.860	.3273	56.55	.5643	-.1350	-.1269
#3	7.028	.1816	57.94	.3406	1.190	2.463

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-157038-k-3-a Acquired: 6/1/2018 5:25:12 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0914	2.669	-.3512	.2743	-3.043	.1729
Stddev	2.950	.905	.1745	.0892	.182	.2398
%RSD	3228.	33.91	49.70	32.52	5.995	138.7
#1	-2.386	2.470	-.5091	.3770	-3.206	.4366
#2	3.236	3.658	-.1638	.2154	-3.077	-.0322
#3	-1.124	1.880	-.3805	.2306	-2.846	.1145

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1433	.1772	.3509	F -261.4
Stddev	.3013	.0648	.1986	6.3
%RSD	210.2	36.57	56.59	2.394
#1	-.1584	.2126	.5786	-266.9
#2	.1444	.1024	.2602	-262.9
#3	.4441	.2167	.2139	-254.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit				20000.
Low Limit				-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7319.5	44464.	9058.7
Stddev	90.4	556.	65.3
%RSD	1.2349	1.2515	.72110
#1	7393.7	44999.	9134.2
#2	7345.8	44505.	9022.3
#3	7218.8	43888.	9019.8

Sample Name: 460-157038-k-1-a Acquired: 6/1/2018 5:05:40 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2635.	3.403	-.3094	90.48	.2455	189100.
Stddev	31.	.867	.3194	3.33	.0244	806.
%RSD	1.194	25.48	103.2	3.680	9.934	.4263

#1	2604.	4.399	-.1613	88.43	.2572	188200.
#2	2633.	2.996	-.0910	88.70	.2617	189200.
#3	2667.	2.815	-.6761	94.33	.2174	189800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.345	21.34	12.43	94.75	5959.	23140.
Stddev	.105	.81	.37	.17	48.	130.
%RSD	7.817	3.792	2.978	.1809	.8097	.5624

#1	1.277	20.62	12.68	94.64	5953.	23000.
#2	1.293	21.18	12.61	94.65	5913.	23170.
#3	1.466	22.22	12.01	94.94	6009.	23260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	100600.	1693.	F 268400.	815.8	-4.109	-2.230
Stddev	317.	8.	655.	32.2	.684	.407
%RSD	.3145	.4637	.2439	3.947	16.64	18.24

#1	100300.	1685.	267800.	789.2	-4.097	-1.887
#2	100600.	1695.	268300.	806.6	-4.799	-2.680
#3	101000.	1700.	269100.	851.6	-3.432	-2.124

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-157038-k-1-a Acquired: 6/1/2018 5:05:40 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.512	5.732	18.27	59.66	62.03	2.537
Stddev	1.920	.292	.23	2.24	3.87	.382
%RSD	76.41	5.088	1.275	3.757	6.238	15.07
#1	3.774	5.952	18.00	57.79	59.10	2.140
#2	3.460	5.844	18.42	59.06	60.57	2.568
#3	.3031	5.401	18.40	62.15	66.41	2.903

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4401	253.9	336.3	11060.
Stddev	.2898	1.5	1.1	337.
%RSD	65.85	.5778	.3274	3.049
#1	-.1964	252.3	335.1	10910.
#2	-.7606	254.2	337.1	10820.
#3	-.3633	255.2	336.8	11440.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6569.9	40462.	8738.7
Stddev	185.4	173.	74.6
%RSD	2.8214	.42802	.85376
#1	6676.6	40650.	8815.9
#2	6677.1	40428.	8733.2
#3	6355.8	40309.	8667.0

Sample Name: 460-156871-b-1-a Acquired: 6/1/2018 5:29:12 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.06	6.280	-.5005	104.0	.0293	249500.
Stddev	6.37	.803	.2141	.5	.0697	1404.
%RSD	6.563	12.78	42.78	.4525	238.1	.5629
#1	96.13	5.444	-.4587	104.5	-.0223	251000.
#2	91.21	6.351	-.3103	104.0	.0015	248200.
#3	103.8	7.045	-.7324	103.5	.1086	249200.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.37	16.68	-.6474	108.1	1055.	25010.
Stddev	.08	.13	.0574	.4	12.	355.
%RSD	.7560	.7883	8.861	.3573	1.174	1.418
#1	10.31	16.61	-.6897	108.2	1069.	25410.
#2	10.33	16.84	-.6704	108.5	1053.	24760.
#3	10.46	16.61	-.5821	107.7	1044.	24850.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41840.	188.6	66140.	63.90	224.6	6.301
Stddev	245.	1.0	920.	.57	1.3	1.134
%RSD	.5846	.5516	1.391	.8995	.5797	17.99
#1	42110.	188.1	67200.	63.56	223.6	7.543
#2	41620.	189.8	65540.	64.57	226.1	5.323
#3	41800.	187.9	65690.	63.58	224.2	6.037

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-156871-b-1-a Acquired: 6/1/2018 5:29:12 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9880	2.043	.2273	2195.	1684.	95.98
Stddev	2.126	2.918	.2513	4.	1.	.56
%RSD	215.1	142.8	110.5	.1941	.0661	.5827
#1	3.151	5.245	-.0487	2190.	1684.	95.80
#2	-1.098	1.347	.2878	2199.	1685.	96.61
#3	.9106	-.4647	.4428	2196.	1683.	95.54

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6505	1564.	3.813	7688.
Stddev	.4141	23.	.181	29.
%RSD	63.66	1.465	4.740	.3782
#1	.2071	1590.	3.721	7720.
#2	1.027	1547.	3.697	7681.
#3	.7173	1554.	4.022	7664.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	6767.6	41722.	8979.5
Stddev	17.6	163.	74.5
%RSD	.25996	.38991	.83015
#1	6787.4	41579.	8900.2
#2	6753.9	41899.	9048.1
#3	6761.4	41688.	8990.1

Sample Name: CCB Acquired: 6/1/2018 5:40:42 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.674	-.0845	.0674	.3189	.0515	11.18
Stddev	12.22	1.167	.2516	.2323	.0165	18.51
%RSD	730.1	1381.	373.3	72.84	32.14	165.6

#1	1.726	1.169	.2127	.5734	.0705	31.48
#2	8.490	-.2837	.2127	.2649	.0418	6.797
#3	-15.24	-1.139	-.2232	.1183	.0420	-4.749

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0935	.0134	.2085	-1.334	5.279	-24.94
Stddev	.0543	.0699	.4462	.711	.995	40.58
%RSD	58.04	522.5	214.0	53.28	18.85	162.7

#1	.1503	-.0499	.6965	-.5367	5.268	-23.87
#2	.0879	.0884	-.1788	-1.565	4.289	15.10
#3	.0422	.0016	.1079	-1.901	6.279	-66.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2002	.2943	52.39	.1570	-.2003	.9983
Stddev	4.697	.3475	9.61	.1072	.2987	.6668
%RSD	2346.	118.1	18.35	68.27	149.1	66.79

#1	5.061	.6829	56.00	.1074	.1433	1.739
#2	-1.688	.1866	59.67	.2799	-.3979	.8100
#3	-3.973	.0134	41.49	.0836	-.3465	.4460

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 6/1/2018 5:40:42 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1178	1.463	.1519	-.7867	4.518	1.076
Stddev	1.960	.450	.4276	.1904	.591	.624
%RSD	1664.	30.76	281.5	24.20	13.07	57.98
#1	1.719	1.513	-.1754	-.6028	4.582	1.796
#2	.1086	.9902	-.0046	-.9830	5.074	.7367
#3	-2.181	1.886	.6358	-.7743	3.898	.6952

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1592	.2267	2.152	-.4348
Stddev	.5014	.1703	1.423	6.776
%RSD	314.9	75.14	66.13	1559.
#1	.5986	.4230	3.749	-2.475
#2	-.3869	.1393	1.688	7.127
#3	.2660	.1178	1.018	-5.956

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7234.9	44274.	8874.3
Stddev	169.9	1147.	214.4
%RSD	2.3480	2.5915	2.4165
#1	7430.5	45041.	8963.2
#2	7123.7	44825.	9030.0
#3	7150.6	42955.	8629.7

Sample Name: 460-156526-b-1-a Acquired: 6/1/2018 6:12:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -17140.	F -8155.	-17.69	-200.2	29.69	12500.
Stddev	9249.	5357.	241.2	531.5	81.78	7422.
%RSD	53.96	65.69	1363.	265.4	275.4	59.38

#1	-20350.	-13170.	-219.3	-512.6	-31.13	20330.
#2	-6714.	-2513.	249.6	413.4	-2.452	11600.
#3	-24360.	-8780.	-83.37	-501.5	122.7	5565.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.				
Low Limit	-200.0	-10.00				

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	930.1	F -61.25	453.7	F -287.4	F -12560.	F 127700.
Stddev	226.7	4798.	451.0	115.4	8980.	43410.
%RSD	24.37	7833.	99.40	40.15	71.48	33.98

#1	942.7	-2797.	17.95	-420.2	-4734.	170900.
#2	697.4	5479.	424.6	-211.3	-10590.	84110.
#3	1150.	-2865.	918.5	-230.8	-22360.	128200.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		5000.		25000.	200000.	100000.
Low Limit		-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6160.	64.37	40010.	294.6	514.1	F -4603.
Stddev	2057.	152.1	22480.	12e3	4956.	35870.
%RSD	33.40	236.3	56.19	4048.	964.0	779.4

#1	3955.	-77.91	36580.	-5920.	2102.	-22080.
#2	6496.	224.7	19440.	14050.	-5041.	36660.
#3	8028.	46.36	64000.	-7241.	4481.	-28390.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						2000.
Low Limit						-20.00

Sample Name: 460-156526-b-1-a Acquired: 6/1/2018 6:12:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3351.	2701.	F -196.3	F -202.5	F -281200.	489.8
Stddev	56e3	29e3	239.7	2504.	3172000.	1262.
%RSD	1677.	1064.	122.1	1236.	1128.	257.6

#1	-25570.	11670.	-431.2	1339.	-1750e3	-775.6
#2	68120.	-29450.	-205.5	-3091.	3359000.	1748.
#3	-32500.	25890.	47.83	1145.	-2452e3	497.2

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit			5000.	5000.	2000.	
Low Limit			-50.00	-50.00	-50.00	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	985.1	F -245.0	F -86.24	F -15380.
Stddev	853.1	123.9	170.6	23110.
%RSD	86.60	50.57	197.8	150.2

#1	1007.	-287.2	110.8	-2526.
#2	121.3	-105.5	-183.1	-42060.
#3	1827.	-342.2	-186.4	-1561.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		10000.	20000.	20000.
Low Limit		-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.5633	-78.095	-13.107
Stddev	3.1656	4.522	4.986
%RSD	202.49	5.7909	38.040

#1	-3.8361	-75.602	-11.078
#2	2.0523	-83.315	-18.787
#3	-2.9062	-75.367	-9.4553

Sample Name: 460-156633-d-1-a Acquired: 6/1/2018 6:23:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -6550.	F 7317.	F -465.5	2628.	64.90	9149.
Stddev	10080.	22e3	844.9	5300.	40.27	5719.
%RSD	154.0	301.9	181.5	201.7	62.06	62.51

#1	4259.	2693.	507.7	-140.0	24.73	10890.
#2	-15710.	31350.	-1011.	8739.	105.3	2762.
#3	-8203.	-12090.	-893.4	-714.4	64.67	13790.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.			
Low Limit	-200.0	-10.00	-20.00			

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -1579.	2556.	F -50.77	F -643.0	F -16520.	99180.
Stddev	2425.	13e3	429.6	189.2	10500.	75500.
%RSD	153.6	489.7	846.1	29.43	63.57	76.12

#1	-231.2	-1836.	123.2	-475.6	-19000.	91670.
#2	-4379.	16680.	264.5	-848.3	-25560.	27720.
#3	-126.6	-7173.	-540.0	-605.2	-5001.	178200.

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	2500.		10000.	25000.	200000.	
Low Limit	-10.00		-20.00	-50.00	-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7108.	121.2	31330.	F 7818.	F -9629.	F 27740.
Stddev	3426.	47.5	20470.	26e3	29180.	84920.
%RSD	48.19	39.18	65.34	329.6	303.1	306.1

#1	8827.	164.0	27730.	-6466.	9967.	-19590.
#2	9335.	129.7	12900.	37560.	-43160.	125800.
#3	3164.	70.08	53370.	-7643.	4312.	-22960.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				5000.	15000.	2000.
Low Limit				-50.00	-10.00	-20.00

Sample Name: 460-156633-d-1-a Acquired: 6/1/2018 6:23:38 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 61340.	F -20870.	F -512.2	F -2480.	F 3607000.	820.6
Stddev	204e3	69500.	73.3	7685.	13e6	4000.
%RSD	331.9	332.9	14.31	309.9	363.6	487.5

#1	-26490.	15180.	-595.9	1029.	-2368e3	-1042.
#2	294100.	-101000.	-459.6	-11290.	19e6	5412.
#3	-83600.	23190.	-481.0	2825.	-5459e3	-1908.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	5000.	5000.	5000.	5000.	2000.	
Low Limit	-10.00	-20.00	-50.00	-50.00	-50.00	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -3707.	F -305.1	F -121.5	F 52090.
Stddev	6053.	82.3	46.8	66870.
%RSD	163.3	26.97	38.53	128.4

#1	911.5	-220.9	-77.02	11780.
#2	-10560.	-309.2	-170.3	129300.
#3	-1474.	-385.3	-117.1	15210.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2000.	10000.	20000.	20000.
Low Limit	-50.00	-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.6218	-74.821	-15.233
Stddev	2.0840	1.384	3.849
%RSD	128.50	1.8497	25.268

#1	-3.6940	-75.545	-17.861
#2	.47386	-73.226	-17.022
#3	-1.6452	-75.693	-10.815

Sample Name: 460-156521-a-2-a Acquired: 6/1/2018 5:57:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -7585.	F -1052.	F -390.1	140.9	56.46	18080.
Stddev	5857.	14250.	354.0	412.4	9.93	4981.
%RSD	77.22	1355.	90.76	292.6	17.59	27.54

#1	-2891.	-14070.	-128.8	-329.5	48.68	15430.
#2	-14150.	14170.	-793.0	312.4	53.06	23830.
#3	-5715.	-3251.	-248.5	440.0	67.64	14980.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.			
Low Limit	-200.0	-10.00	-20.00			

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	650.1	F -2079.	24.45	F -1062.	F -20840.	2297.
Stddev	834.4	5071.	544.3	219.	5669.	23e3
%RSD	128.4	243.9	2227.	20.60	27.19	1022.

#1	1534.	-5200.	-200.8	-935.8	-20780.	-17900.
#2	-123.7	3772.	645.2	-1315.	-15210.	-3234.
#3	539.7	-4809.	-371.1	-935.7	-26550.	28030.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit		5000.		25000.	200000.	
Low Limit		-50.00		-50.00	-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9418.	139.6	F -78210.	F -5115.	4393.	F -10930.
Stddev	1646.	106.6	83550.	10020.	13e3	37600.
%RSD	17.48	76.37	106.8	196.0	303.9	343.9

#1	9153.	175.8	-171600.	-12010.	932.4	-32790.
#2	7920.	223.4	-52380.	6384.	-6887.	32480.
#3	11180.	19.60	-10610.	-9717.	19130.	-32480.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit			250000.	5000.		2000.
Low Limit			-5000.	-50.00		-20.00

Sample Name: 460-156521-a-2-a Acquired: 6/1/2018 5:57:09 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -15630.	F 8634.	F -319.9	864.6	F -350500.	F -1431.
Stddev	60650.	36e3	139.6	2752.	1063000.	3107.
%RSD	388.1	418.2	43.63	318.3	303.4	217.2

#1	-65510.	44970.	-167.8	3647.	-1163e3	-3333.
#2	51880.	-27250.	-349.7	-1856.	852900.	2155.
#3	-33250.	8184.	-442.1	802.8	-741200.	-3114.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.		2000.	5000.
Low Limit	-10.00	-20.00	-50.00		-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 2720.	F -210.0	F -71.98	F -6247.
Stddev	4287.	87.0	60.56	4280.
%RSD	157.6	41.42	84.13	68.51

#1	7426.	-184.9	-51.47	-10970.
#2	-964.8	-306.7	-24.34	-5133.
#3	1699.	-138.3	-140.1	-2634.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2000.	10000.	20000.	20000.
Low Limit	-50.00	-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-.91491	-83.225	-12.810
Stddev	3.4934	8.518	3.738
%RSD	381.83	10.235	29.182

#1	-2.3693	-87.143	-8.9869
#2	3.0707	-73.453	-12.987
#3	-3.4462	-89.080	-16.458

Sample Name: 460-156526-b-2-a Acquired: 6/1/2018 6:15:58 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -6958.	F -36310.	F -509.0	F -1249.	40.96	10710.
Stddev	4158.	12550.	478.0	2435.	39.56	6984.
%RSD	59.76	34.55	93.91	195.0	96.59	65.21

#1	-11650.	-28270.	42.91	-3563.	29.48	5333.
#2	-5503.	-29900.	-781.9	-1476.	84.98	8192.
#3	-3723.	-50770.	-788.0	1292.	8.402	18600.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.	20000.		
Low Limit	-200.0	-10.00	-20.00	-1000.		

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2238.	F -17370.	133.5	F -438.8	F -14480.	96870.
Stddev	1418.	7489.	485.2	166.7	7560.	33650.
%RSD	63.37	43.11	363.5	37.98	52.21	34.74

#1	2089.	-13570.	220.6	-616.3	-9042.	129000.
#2	900.1	-12550.	-389.3	-285.5	-23110.	99690.
#3	3725.	-26000.	569.2	-414.7	-11280.	61890.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit		5000.		25000.	200000.	
Low Limit		-50.00		-50.00	-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4059.	117.5	31760.	F -36770.	5222.	F -73190.
Stddev	5002.	38.0	10090.	23710.	9225.	20200.
%RSD	123.2	32.31	31.77	64.47	176.7	27.60

#1	-1054.	76.94	38100.	-26270.	-5191.	-74420.
#2	8941.	123.5	37070.	-20140.	8483.	-52410.
#3	4290.	152.2	20130.	-63920.	12370.	-92750.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				5000.		2000.
Low Limit				-50.00		-20.00

Sample Name: 460-156526-b-2-a Acquired: 6/1/2018 6:15:58 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -124200.	F 49860.	F -336.3	F 8714.	F -11e6	F -5211.
Stddev	102400.	34690.	293.9	5107.	4973000.	4060.
%RSD	82.43	69.57	87.41	58.61	45.42	77.90

#1	-52220.	31420.	-665.8	5844.	-8441e3	-2329.
#2	-78940.	28280.	-241.6	5687.	-7728e3	-9854.
#3	-241400.	89880.	-101.3	14610.	-17e6	-3450.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.	5000.	2000.	5000.
Low Limit	-10.00	-20.00	-50.00	-50.00	-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 5099.	F -280.0	-43.65	F 116200.
Stddev	8868.	131.8	84.57	205200.
%RSD	173.9	47.09	193.7	176.6

#1	7145.	-431.5	-90.83	8732.
#2	12760.	-216.9	53.98	-12920.
#3	-4613.	-191.5	-94.11	352800.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2000.	10000.		20000.
Low Limit	-50.00	-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-.79213	-77.380	-14.151
Stddev	.27903	8.601	3.899
%RSD	35.225	11.116	27.551

#1	-.88779	-84.372	-9.7867
#2	-1.0107	-79.994	-15.377
#3	-.47786	-67.776	-17.290

Sample Name: 460-156528-b-1-a Acquired: 6/1/2018 6:19:48 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -11410.	F -3833.	103.0	307.6	21.62	13690.
Stddev	4800.	31440.	412.3	1944.	37.88	7323.
%RSD	42.06	820.3	400.1	632.0	175.3	53.50

#1	-11900.	24530.	560.0	2282.	61.56	13530.
#2	-15950.	1602.	-240.9	244.8	17.08	6443.
#3	-6388.	-37630.	-9.970	-1604.	-13.80	21090.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.				
Low Limit	-200.0	-10.00				

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1759.	F -2406.	F -69.06	F -735.6	F -15260.	81370.
Stddev	1036.	9706.	503.9	68.8	7524.	10590.
%RSD	58.88	403.5	729.7	9.350	49.31	13.02

#1	1737.	7875.	466.1	-728.8	-21140.	83210.
#2	734.4	-3681.	-138.6	-670.4	-17850.	90920.
#3	2806.	-11410.	-534.6	-807.5	-6782.	69970.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit		5000.	10000.	25000.	200000.	
Low Limit		-50.00	-20.00	-50.00	-150.0	

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3504.	123.8	29430.	F -4652.	F -8715.	F 3077.
Stddev	2808.	97.4	11000.	26300.	19260.	55e3
%RSD	80.14	78.69	37.39	565.2	221.0	1789.

#1	3345.	40.24	19380.	24270.	-29930.	65400.
#2	6389.	230.8	41190.	-11100.	7663.	-17260.
#3	779.0	100.3	27720.	-27120.	-3878.	-38910.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit				5000.	15000.	2000.
Low Limit				-50.00	-10.00	-20.00

Sample Name: 460-156528-b-1-a Acquired: 6/1/2018 6:19:48 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -3488.	F -17040.	F -190.6	F -377.1	F -1130e3	F -282.7
Stddev	87040.	57010.	153.2	4849.	9583000.	4127.
%RSD	2495.	334.5	80.38	1286.	848.1	1460.

#1	95620.	-82770.	-241.5	-5866.	9357000.	4246.
#2	-38580.	12700.	-312.0	1410.	-3313e3	-1262.
#3	-67510.	18940.	-18.44	3324.	-9433e3	-3832.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.	5000.	2000.	5000.
Low Limit	-10.00	-20.00	-50.00	-50.00	-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -330.1	F -249.2	F -54.28	F -8214.
Stddev	3434.	110.9	181.3	47330.
%RSD	1040.	44.50	334.1	576.2

#1	349.9	-126.1	-156.4	-58780.
#2	2713.	-341.2	-161.5	-886.4
#3	-4054.	-280.3	155.1	35020.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2000.	10000.	20000.	20000.
Low Limit	-50.00	-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-85488	-69.744	-16.181
Stddev	1.7217	3.820	3.119
%RSD	201.40	5.4774	19.273

#1	.89028	-72.514	-19.335
#2	-2.5521	-71.332	-13.099
#3	-.90282	-65.386	-16.110

Sample Name: 460-156778-f-7-a@4 Acquired: 6/1/2018 7:13:40 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -2988.	F -3944.	70.61	1588.	41.39	6398.
Stddev	10950.	37810.	743.1	1187.	33.47	4023.
%RSD	366.5	958.6	1053.	74.77	80.85	62.87

#1	7780.	-39890.	463.9	2261.	44.63	10450.
#2	-14110.	35480.	534.4	2285.	6.424	2402.
#3	-2631.	-7423.	-786.5	217.0	73.13	6345.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.				
Low Limit	-200.0	-10.00				

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -25.49	F -5036.	F -94.78	F -243.6	F -3260.	F -178200.
Stddev	1057.	11890.	566.5	257.1	5655.	99570.
%RSD	4145.	236.0	597.7	105.6	173.5	55.86

#1	-903.9	-13320.	-380.9	26.85	-8539.	-293200.
#2	-319.5	8584.	-461.1	-272.7	2708.	-120100.
#3	1147.	-10380.	557.7	-484.9	-3949.	-121400.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2500.	5000.	10000.	25000.	200000.	100000.
Low Limit	-10.00	-50.00	-20.00	-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1896.	7.884	F -50830.	F -2954.	F -10800.	F -20000.
Stddev	5962.	76.41	25530.	29040.	34390.	49570.
%RSD	314.4	969.2	50.24	983.0	318.4	247.9

#1	4615.	89.96	-80190.	-23310.	6889.	-55570.
#2	-4940.	-5.111	-33850.	30300.	-50430.	36620.
#3	6014.	-61.20	-38440.	-15850.	11140.	-41040.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit			250000.	5000.	15000.	2000.
Low Limit			-5000.	-50.00	-10.00	-20.00

Sample Name: 460-156778-f-7-a@4 Acquired: 6/1/2018 7:13:40 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -28620.	F 18340.	F -88.39	1339.	F -4330e3	-41.32
Stddev	137900.	38880.	287.2	5857.	20e6	2987.
%RSD	481.8	212.0	324.9	437.2	471.3	7230.

#1	-120800.	43680.	-348.1	4936.	-19e6	-2130.
#2	129900.	-26430.	-137.0	-5418.	19e6	3380.
#3	-94980.	37780.	220.0	4501.	-13e6	-1375.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass
High Limit	5000.	5000.	5000.		2000.	
Low Limit	-10.00	-20.00	-50.00		-50.00	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -8619.	F -245.9	F -52.78	15650.
Stddev	10300.	47.3	101.2	53540.
%RSD	119.6	19.25	191.8	342.2

#1	-20060.	-293.7	-164.5	-11500.
#2	-5729.	-244.9	-26.80	77330.
#3	-68.0	-199.0	32.94	-18880.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	2000.	10000.	20000.	
Low Limit	-50.00	-50.00	-50.00	

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-.35450	-62.933	-11.829
Stddev	.95013	3.516	3.829
%RSD	268.02	5.5867	32.371

#1	-.72014	-59.593	-7.5824
#2	.72414	-66.602	-15.019
#3	-1.0675	-62.604	-12.885

Sample Name: 460-156643-a-1-a Acquired: 6/1/2018 6:42:49 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -7924.	F 44470.	F -134.1	1292.	31.96	903.2
Stddev	6153.	58690.	268.8	1830.	12.58	5301.
%RSD	77.65	132.0	200.5	141.6	39.37	586.9

#1	-1805.	94310.	-440.0	1296.	17.52	-2822.
#2	-14110.	59310.	-26.21	3120.	40.58	-1441.
#3	-7856.	-20220.	64.02	-540.2	37.78	6972.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.			
Low Limit	-200.0	-10.00	-20.00			

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -2254.	F 9210.	12.71	F -326.6	F -13790.	F -26800.
Stddev	3598.	12e3	816.3	405.0	13670.	31100.
%RSD	159.7	129.1	6422.	124.0	99.13	116.0

#1	-6404.	17660.	714.5	-773.5	-16260.	-5968.
#2	-355.0	14360.	206.7	-222.5	948.7	-11880.
#3	-2.09	-4390.	-883.1	16.18	-26040.	-62540.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	2500.	5000.		25000.	200000.	100000.
Low Limit	-10.00	-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6994.	110.6	F -6853.	F 16630.	F -16050.	F 52270.
Stddev	6312.	106.3	6176.	19680.	31440.	77100.
%RSD	90.25	96.13	90.12	118.4	195.9	147.5

#1	4403.	209.0	-2129.	22860.	-50290.	101500.
#2	14190.	124.8	-13840.	32430.	11520.	91840.
#3	2389.	-2.128	-4589.	-5415.	-9374.	-36580.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit			250000.	5000.	15000.	2000.
Low Limit			-5000.	-50.00	-10.00	-20.00

Sample Name: 460-156643-a-1-a Acquired: 6/1/2018 6:42:49 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 61750.	F -47550.	F -496.9	F -2947.	F 24e6	688.2
Stddev	97870.	58240.	313.7	3229.	30e6	1770.
%RSD	158.5	122.5	63.14	109.6	124.9	257.2

#1	85430.	-82050.	-848.9	-4881.	39e6	705.5
#2	145600.	-80300.	-395.0	-4740.	43e6	2449.
#3	-45780.	19680.	-246.8	780.3	-10e6	-1090.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	5000.	5000.	5000.	5000.	2000.	
Low Limit	-10.00	-20.00	-50.00	-50.00	-50.00	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -3154.	F -213.8	F -105.2	F 23270.
Stddev	4303.	69.6	106.1	12660.
%RSD	136.4	32.54	100.9	54.43

#1	810.0	-224.9	13.66	36850.
#2	-7730.	-277.1	-190.5	21170.
#3	-2542.	-139.3	-138.7	11780.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2000.	10000.	20000.	20000.
Low Limit	-50.00	-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-.36288	-69.623	-14.061
Stddev	1.5700	7.196	1.015
%RSD	432.65	10.335	7.2198

#1	.56799	-61.328	-15.233
#2	.51893	-74.176	-13.477
#3	-2.1756	-73.366	-13.472

Sample Name: 460-156778-f-4-b@4 Acquired: 6/1/2018 7:02:05 Type: Unk

Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -7009.	F -13510.	F -693.4	-294.3	35.39	5944.
Stddev	6249.	11960.	872.3	816.2	1.31	4751.
%RSD	89.16	88.55	125.8	277.3	3.687	79.92

#1	-182.7	-8141.	-1664.	-1156.	36.10	11280.
#2	-12450.	-5171.	25.00	-193.1	36.20	4369.
#3	-8397.	-27210.	-441.2	466.6	33.89	2181.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.			
Low Limit	-200.0	-10.00	-20.00			

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -503.4	F -6817.	195.4	F -141.4	F -8292.	F -145400.
Stddev	827.6	5529.	199.9	323.4	15770.	32350.
%RSD	164.4	81.12	102.3	228.8	190.2	22.25

#1	-151.3	-5200.	406.0	231.9	5453.	-174600.
#2	89.95	-2276.	8.402	-338.9	-25510.	-151100.
#3	-1449.	-12970.	171.7	-317.1	-4816.	-110600.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	2500.	5000.		25000.	200000.	100000.
Low Limit	-10.00	-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8386.	107.9	F -33630.	F -11550.	F 21170.	F -30420.
Stddev	6555.	87.4	8498.	10520.	6658.	16890.
%RSD	78.17	81.03	25.27	91.07	31.45	55.51

#1	15710.	18.64	-29740.	-6156.	23290.	-27390.
#2	3058.	193.3	-27770.	-4819.	13700.	-15260.
#3	6394.	111.6	-43370.	-23670.	26500.	-48620.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit			250000.	5000.	15000.	2000.
Low Limit			-5000.	-50.00	-10.00	-20.00

Sample Name: 460-156778-f-4-b@4 Acquired: 6/1/2018 7:02:05 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -58050.	F 28350.	F -564.2	1088.	F -9126e3	F -3874.
Stddev	35920.	11990.	295.7	795.	4883000.	3103.
%RSD	61.87	42.29	52.40	73.14	53.51	80.10

#1	-63060.	28830.	-305.8	1091.	-8535e3	-3102.
#2	-19900.	16130.	-500.1	290.6	-4565e3	-1229.
#3	-91210.	40090.	-886.6	1881.	-14e6	-7289.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.		2000.	5000.
Low Limit	-10.00	-20.00	-50.00		-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F 2631.	F -209.8	19.48	F -8426.
Stddev	5159.	79.7	145.3	9632.
%RSD	196.1	37.99	745.9	114.3

#1	8581.	-228.3	-34.24	-16820.
#2	-598.2	-122.5	-91.30	-10550.
#3	-88.81	-278.7	184.0	2091.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	2000.	10000.		20000.
Low Limit	-50.00	-50.00		-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.8504	-62.049	-17.272
Stddev	1.0422	9.891	1.196
%RSD	56.321	15.940	6.9247

#1	-1.6319	-51.959	-16.089
#2	-2.9845	-62.460	-17.248
#3	-93477	-71.728	-18.481

Sample Name: CCVL Acquired: 6/1/2018 6:35:10 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -4801.	F -9556.	F -10.94	F 437.8	F 107.2	6386.
Stddev	4084.	2423.	578.9	224.0	19.9	911.
%RSD	85.06	25.35	5291.	51.17	18.58	14.27

#1	-1518.	-6966.	588.0	182.4	130.2	6394.
#2	-3511.	-11770.	-567.6	600.9	97.04	5472.
#3	-9374.	-9935.	-53.24	530.0	94.44	7294.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value	200.0	15.00	10.00	200.0	2.000	
Range	-30.50%	-30.50%	-30.50%	30.50%	30.50%	

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 251.3	F -3535.	F -333.7	F -240.1	F -9870.	F 44090.
Stddev	252.1	875.	357.0	94.4	8026.	6483.
%RSD	100.3	24.75	107.0	39.30	81.31	14.70

#1	37.78	-3746.	-377.3	-135.0	-17110.	41120.
#2	186.6	-4285.	43.09	-317.7	-1240.	39630.
#3	529.5	-2574.	-666.9	-267.6	-11260.	51530.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	4.000	50.00	10.00	25.00	150.0	5000.
Range	30.50%	-30.50%	-30.50%	-30.50%	-30.50%	30.50%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3652.	F 75.52	F 24800.	F -5418.	F 3021.	F -18920.
Stddev	6206.	61.25	3241.	362.	3630.	12250.
%RSD	169.9	81.10	13.07	6.686	120.2	64.75

#1	8518.	116.1	21580.	-5025.	5860.	-12770.
#2	5775.	105.4	28060.	-5739.	4272.	-33030.
#3	-3337.	5.071	24770.	-5490.	-1070.	-10970.

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value		15.00	5000.	40.00	10.00	20.00
Range		30.50%	30.50%	-30.50%	30.50%	-30.50%

Sample Name: CCVL Acquired: 6/1/2018 6:35:10 Type: QC
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -34130.	F 15510.	F -647.0	F 1003.	F -5425e3	F -1165.
Stddev	15940.	7340.	310.0	176.	2194000.	178.
%RSD	46.71	47.34	47.91	17.59	40.45	15.32

#1	-23960.	9725.	-321.2	1205.	-4146e3	-1255.
#2	-52500.	23760.	-938.4	879.3	-7958e3	-1280.
#3	-25920.	13030.	-681.6	924.2	-4170e3	-959.1

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	20.00	20.00	50.00	30.00	50.00	20.00
Range	-30.50%	30.50%	-30.50%	30.50%	-30.50%	-30.50%

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -497.3	F -229.8	F 112.3	F 5331.
Stddev	706.0	89.1	67.3	31e3
%RSD	142.0	38.77	59.97	585.6

#1	-357.0	-182.9	58.45	28010.
#2	128.0	-332.5	90.57	-30280.
#3	-1263.	-174.0	187.7	18260.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	50.00	20.00	20.00	200.0
Range	-30.50%	-30.50%	30.50%	30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-3.3984	-83.443	-12.920
Stddev	1.1194	1.209	2.283
%RSD	32.940	1.4490	17.673

#1	-3.7995	-82.164	-14.856
#2	-2.1337	-83.599	-13.502
#3	-4.2619	-84.567	-10.402

Sample Name: 460-156778-f-9-b@4 Acquired: 6/1/2018 7:33:11 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -10070.	F -39470.	F -207.1	-284.4	7.811	3071.
Stddev	9143.	28260.	496.3	2412.	29.50	4144.
%RSD	90.80	71.61	239.6	848.0	377.6	134.9

#1	-11410.	-56060.	366.0	-2591.	37.92	7073.
#2	-18470.	-55510.	-496.8	2220.	6.553	3343.
#3	-328.8	-6834.	-490.6	-482.5	-21.04	-1201.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	250000.	5000.	2500.			
Low Limit	-200.0	-10.00	-20.00			

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1255.	F -12010.	269.5	F -244.0	F -17610.	F -278500.
Stddev	1097.	9305.	791.0	665.4	1095.	67300.
%RSD	87.43	77.49	293.5	272.6	6.219	24.17

#1	2342.	-17420.	1127.	515.8	-16710.	-315900.
#2	1277.	-17340.	-431.4	-525.4	-18830.	-318800.
#3	147.0	-1264.	112.8	-722.5	-17290.	-200800.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		5000.		25000.	200000.	100000.
Low Limit		-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6389.	10.23	F -115400.	F -21970.	12860.	F -76880.
Stddev	4090.	42.53	25520.	13770.	14850.	63040.
%RSD	64.02	415.8	22.13	62.70	115.6	82.00

#1	6831.	45.65	-129400.	-29350.	3073.	-146200.
#2	2096.	-36.94	-130800.	-30470.	29950.	-61390.
#3	10240.	21.97	-85890.	-6077.	5544.	-23030.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit			250000.	5000.		2000.
Low Limit			-5000.	-50.00		-20.00

Sample Name: 460-156778-f-9-b@4 Acquired: 6/1/2018 7:33:11 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -93310.	822.0	F -341.2	4816.	F -18e6	F -1135.
Stddev	67520.	10e3	401.0	3383.	12e6	2415.
%RSD	72.35	1227.	117.5	70.24	66.22	212.8

#1	-167700.	5902.	-676.6	5582.	-23e6	1202.
#2	-76210.	-10790.	103.0	7750.	-27e6	-3622.
#3	-36000.	7353.	-450.0	1116.	-4425e3	-986.1

Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit	5000.		5000.		2000.	5000.
Low Limit	-10.00		-50.00		-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -2043.	F -192.4	F -52.38	F 90820.
Stddev	4214.	66.4	83.13	54000.
%RSD	206.3	34.49	158.7	59.46

#1	942.1	-256.5	-143.9	141800.
#2	-6864.	-196.7	-31.66	34230.
#3	-207.9	-124.0	18.43	96450.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	2000.	10000.	20000.	20000.
Low Limit	-50.00	-50.00	-50.00	-200.0

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-1.2776	-51.836	-14.659
Stddev	1.3440	8.374	3.323
%RSD	105.20	16.154	22.671

#1	-.53639	-54.883	-13.866
#2	-.46741	-58.260	-11.803
#3	-2.8289	-42.366	-18.306

Sample Name: 460-156778-f-10-b@4 Acquired: 6/1/2018 7:37:05 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -5655.	F -7126.	F -549.9	101.4	109.0	F -843.5
Stddev	4871.	26090.	897.2	210.9	23.9	7500.
%RSD	86.14	366.1	163.2	208.0	21.89	889.2

#1	-34.31	16690.	-1555.	323.1	123.7	-5335.
#2	-8650.	-3057.	-265.2	-96.76	81.46	7815.
#3	-8281.	-35010.	170.4	77.82	121.8	-5011.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Fail
High Limit	250000.	5000.	2500.			250000.
Low Limit	-200.0	-10.00	-20.00			-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	258.7	F -2750.	438.1	F -343.2	F -14200.	F -273900.
Stddev	870.8	5382.	655.4	202.2	8556.	21590.
%RSD	336.6	195.7	149.6	58.91	60.25	7.883

#1	-641.6	1890.	-93.62	-378.5	-14180.	-249100.
#2	321.3	-1490.	1170.	-125.7	-22760.	-284000.
#3	1097.	-8650.	237.5	-525.4	-5653.	-288500.

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		5000.		25000.	200000.	100000.
Low Limit		-50.00		-50.00	-150.0	-5000.

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8790.	28.98	F -136600.	F -4803.	7097.	F -8410.
Stddev	4551.	72.39	10880.	10930.	11e3	43870.
%RSD	51.77	249.8	7.967	227.5	153.1	521.7

#1	6478.	-13.62	-127000.	6494.	-2505.	40240.
#2	5860.	-12.01	-134300.	-5582.	4904.	-20480.
#3	14030.	112.6	-148400.	-15320.	18890.	-44980.

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit			250000.	5000.		2000.
Low Limit			-5000.	-50.00		-20.00

Sample Name: 460-156778-f-10-b@4 Acquired: 6/1/2018 7:37:05 Type: Unk
Method: BC052518(v8) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F -18670.	F -4048.	F -717.6	732.8	F -3097e3	F -2180.
Stddev	53530.	15840.	240.7	2504.	9206000.	1542.
%RSD	286.8	391.4	33.54	341.7	297.3	70.72

#1	40100.	-17010.	-891.1	-1959.	6530000.	-1261.
#2	-31460.	13610.	-818.9	1164.	-4006e3	-1320.
#3	-64640.	-8741.	-442.8	2993.	-12e6	-3960.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail
High Limit	5000.	5000.	5000.		2000.	5000.
Low Limit	-10.00	-20.00	-50.00		-50.00	-50.00

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	F -685.8	F -250.8	54.41	1659.
Stddev	2910.	35.3	89.62	28e3
%RSD	424.3	14.07	164.7	1713.

#1	-87.15	-226.5	150.0	-19320.
#2	1878.	-234.6	41.04	34000.
#3	-3848.	-291.3	-27.78	-9701.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	2000.	10000.		
Low Limit	-50.00	-50.00		

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	-77450	-57.817	-13.501
Stddev	2.5347	6.137	.204
%RSD	327.27	10.615	1.5081

#1	1.9041	-58.135	-13.506
#2	-3.1354	-51.528	-13.703
#3	-1.0922	-63.789	-13.296

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 523775 Batch Start Date: 05/30/18 20:15 Batch Analyst: Esteban, Gared ABatch Method: 200.7 Batch End Date: 05/31/18 00:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME LCS-int 00067			
MB 460-523775/1		200.7, 200.7 Rev 4.4		50 mL	50 mL				
LCS 460-523775/2		200.7, 200.7 Rev 4.4		50 mL	50 mL	1 mL			
460-157038-K-1	NL-MW-3-20180525	200.7, 200.7 Rev 4.4	R	50 mL	50 mL				
460-157038-A-1 DU	NL-MW-3-20180525	200.7, 200.7 Rev 4.4	R	50 mL	50 mL				
460-157038-K-1 MS	NL-MW-3-20180525	200.7, 200.7 Rev 4.4	R	50 mL	50 mL	1 mL			
460-157038-K-2	NL-MW-DUP-201805 25	200.7, 200.7 Rev 4.4	R	50 mL	50 mL				
460-157038-K-3	NL-FB-20180525	200.7, 200.7 Rev 4.4	R	50 mL	50 mL				

Batch Notes	
Batch Comment	1:1 HCL MPR347
Filter Paper ID	09-790F
Lot # of hydrochloric acid	0000186764
Hot Block ID	#9
Oven, Bath or Block Temperature 1	97 Uncorr 95 Corr Degrees C
Pipette ID	# 68
Thermometer ID	ICP-3 (CF -2)
Digestion Tube/Cup ID	J301450-8143 (100ML Digi Tubes)

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 523830 Batch Start Date: 05/31/18 01:30 Batch Analyst: Esteban, Gared ABatch Method: FILTRATION Batch End Date: 05/31/18 02:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount				
MB 460-523830/1		FILTRATION, 200.7, 200.7 Rev 4.4		50 mL	50 mL				
460-157038-J-1	NL-MW-3-20180525	FILTRATION, 200.7, 200.7 Rev 4.4	D	50 mL	50 mL				
460-157038-B-1 DU	NL-MW-3-20180525	FILTRATION, 200.7, 200.7 Rev 4.4	D	50 mL	50 mL				
460-157038-H-1 MS	NL-MW-3-20180525	FILTRATION, 200.7, 200.7 Rev 4.4	D	50 mL	50 mL				
460-157038-J-2	NL-MW-DUP-201805 25	FILTRATION, 200.7, 200.7 Rev 4.4	D	50 mL	50 mL				
460-157038-I-3	NL-FB-20180525	FILTRATION, 200.7, 200.7 Rev 4.4	D	50 mL	50 mL				

Batch Notes	
Filter ID	J298262-20171122PC78M (0.45 Micron)

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 523831 Batch Start Date: 05/31/18 02:30 Batch Analyst: Esteban, Gared ABatch Method: 200.7 Batch End Date: 05/31/18 06:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ME LCS-int 00067			
MB 460-523830/1-A		200.7, 200.7 Rev 4.4		50 mL	50 mL				
LCS 460-523831/2		200.7, 200.7 Rev 4.4		50 mL	50 mL	1 mL			
460-157038-J-1-A	NL-MW-3-20180525	200.7, 200.7 Rev 4.4	D	50 mL	50 mL				
460-157038-B-1-A DU	NL-MW-3-20180525	200.7, 200.7 Rev 4.4	D	50 mL	50 mL				
460-157038-H-1-A MS	NL-MW-3-20180525	200.7, 200.7 Rev 4.4	D	50 mL	50 mL	1 mL			
460-157038-J-2-A	NL-MW-DUP-20180525	200.7, 200.7 Rev 4.4	D	50 mL	50 mL				
460-157038-I-3-A	NL-FB-20180525	200.7, 200.7 Rev 4.4	D	50 mL	50 mL				

Batch Notes	
Batch Comment	1:1 HCL MPR347
Filter Paper ID	09-790F
Lot # of hydrochloric acid	0000186764
Hot Block ID	#9
Oven, Bath or Block Temperature 1	97 Uncorr 95 Corr Degrees C
Pipette ID	# 68
Thermometer ID	ICP-3 (CF -2)
Digestion Tube/Cup ID	J301450-8143 (100ML Digi Tubes)

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-157038-1

SDG No.: _____

Project: 3200 Jerome Ave

Client Sample ID	Lab Sample ID
<u>NL-MW-3-20180525</u>	<u>460-157038-1</u>
<u>NL-MW-DUP-20180525</u>	<u>460-157038-2</u>
<u>NL-FB-20180525</u>	<u>460-157038-3</u>

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-MW-3-20180525	Lab Sample ID: 460-157038-1
Lab Name: TestAmerica Edison	Job No.: 460-157038-1
SDG ID.:	
Matrix: Water	Date Sampled: 05/25/2018 11:30
Reporting Basis: WET	Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	0.58	1.0	0.58	mg/L	U		1	SM 4500 S2 F
15438-31-0	Ferrous Iron	0.056	0.10	0.056	mg/L	U	HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-MW-3-20180525 Lab Sample ID: 460-157038-1
Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG ID.:
Matrix: Water Date Sampled: 05/25/2018 11:30
Reporting Basis: WET Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Carbonate Alkalinity as CaCO ₃	5.0	5.0		mg/L	U		1	SM 2320B
	Alkalinity	374	5.0		mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-MW-DUP-20180525	Lab Sample ID: 460-157038-2
Lab Name: TestAmerica Edison	Job No.: 460-157038-1
SDG ID.:	
Matrix: Water	Date Sampled: 05/25/2018 11:50
Reporting Basis: WET	Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	0.58	1.0	0.58	mg/L	U		1	SM 4500 S2 F
15438-31-0	Ferrous Iron	0.056	0.10	0.056	mg/L	U	HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-MW-DUP-20180525	Lab Sample ID: 460-157038-2
Lab Name: TestAmerica Edison	Job No.: 460-157038-1
SDG ID.:	
Matrix: Water	Date Sampled: 05/25/2018 11:50
Reporting Basis: WET	Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Carbonate Alkalinity as CaCO3	5.0	5.0		mg/L	U		1	SM 2320B
	Alkalinity	346	5.0		mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-FB-20180525	Lab Sample ID: 460-157038-3
Lab Name: TestAmerica Edison	Job No.: 460-157038-1
SDG ID.:	
Matrix: Water	Date Sampled: 05/25/2018 12:00
Reporting Basis: WET	Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	0.58	1.0	0.58	mg/L	U		1	SM 4500 S2 F
15438-31-0	Ferrous Iron	0.056	0.10	0.056	mg/L	U	HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-FB-20180525 Lab Sample ID: 460-157038-3
Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG ID.:
Matrix: Water Date Sampled: 05/25/2018 12:00
Reporting Basis: WET Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Carbonate Alkalinity as CaCO ₃	5.0	5.0		mg/L	U		1	SM 2320B
	Alkalinity	5.0	5.0		mg/L	U		1	SM 2320B

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Analyst: HTV Batch Start Date: 05/30/2018
Reporting Units: mg/L Analytical Batch No.: 523698

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	ICV	16:56	Ferrous Iron	2.06	2.00	103	95-105		WTfeSP2_00029
2	ICB	16:56	Ferrous Iron	0.056				U	
13	CCV	16:59	Ferrous Iron	2.09	2.00	105	95-105		WTfeSP2_00029
14	CCB	16:59	Ferrous Iron	0.056				U	
16	CCV	17:02	Ferrous Iron	2.07	2.00	104	95-105		WTfeSP2_00029
17	CCB	17:02	Ferrous Iron	0.056				U	

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 524357 Date: 06/01/2018 11:20							
SM 2320B	MB 460-524357/2	Carbonate Alkalinity as CaCO3	5.0	U	mg/L	5.0	1
SM 2320B	MB 460-524357/2	Alkalinity	5.0	U	mg/L	5.0	1
Batch ID: 523698 Date: 05/30/2018 16:56							
SM 3500 FE D	MB 460-523698/3	Ferrous Iron	0.056	U	mg/L	0.10	1
Batch ID: 524039 Date: 05/31/2018 15:51							
SM 4500 S2 F	MB 460-524039/1	Sulfide	0.58	U	mg/L	1.0	1
Batch ID: 524040 Date: 05/31/2018 15:58							
SM 4500 S2 F	MB 460-524040/1	Sulfide	0.58	U	mg/L	1.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 523698 Date: 05/30/2018 16:59											
SM 3500	460-157038-1	Ferrous Iron	0.056	U	mg/L						HF
FE D											
SM 3500	460-157038-1	Ferrous Iron	1.47		mg/L	2.00	74	84-119			HF N
FE D	MS										
Batch ID: 524039 Date: 05/31/2018 15:51											
SM 4500	460-157038-1	Sulfide	0.58	U	mg/L						
S2 F											
SM 4500	460-157038-1	Sulfide	3.56		mg/L	4.31	82	42-110			
S2 F	MS										

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

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 523698 Date: 05/30/2018 16:59											
SM 3500	460-157038-1	Ferrous Iron	1.45		mg/L	2.00	73	84-119	1	20	HF N
FE D	MSD										
Batch ID: 524039 Date: 05/31/2018 15:51											
SM 4500	460-157038-1M	Sulfide	3.56		mg/L	4.31					
S2 F	SD										

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

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 524357 Date: 06/01/2018 12:25								
SM 2320B	NL-MW-3-20180525	460-157038-1	Carbonate Alkalinity as CaCO3	5.0	mg/L			U
SM 2320B	NL-MW-3-20180525	460-157038-1 DU	Carbonate Alkalinity as CaCO3	5.0	mg/L	NC	10	U
SM 2320B	NL-MW-3-20180525	460-157038-1	Alkalinity	374	mg/L			
SM 2320B	NL-MW-3-20180525	460-157038-1 DU	Alkalinity	356.7	mg/L	5	10	

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

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 523698 Date: 05/30/2018 16:56											
						LCS Source: WTfeSP1_00029					
SM 3500	LCS	Ferrous Iron	0.485		mg/L	0.500	97	84-119			
FE D	460-523698/4										
Batch ID: 524040 Date: 05/31/2018 15:58											
						LCS Source: WT-AQ-S2LCS_00022					
SM 4500	LCS	Sulfide	4.69		mg/L	5.97	79	70-130			
S2 F	460-524040/3										

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

FORM VIIA-IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 524357 Date: 06/01/2018 11:27											
						LCS Source: WTalkLCS_00142					
SM	LCSSRM	Alkalinity	57.20		mg/L	53.9	106.1	85.0-11			
2320B	460-524357/3							4.8			
Batch ID: 524039 Date: 05/31/2018 15:51											
						LCS Source: WT-AQ-S2LCS_00022					
SM 4500	LCSSRM	Sulfide	4.69		mg/L	5.97	78.5	44.2-14			
S2 F	460-524039/3							4.7			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-157038-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F MDL Date: 08/15/2016 15:51

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfide		1	0.579

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-157038-1
SDG Number: _____
Matrix: Water Instrument ID: NOEQUIP
Method: SM 4500 S2 F XMDL Date: 08/15/2016 15:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfide		1	0.579

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 460-157038-1

SDG Number: _____

Matrix: Water

Instrument ID: Auto_Titrator

Method: SM 2320B

RL Date: 09/13/2006 14:08

Analyte	Wavelength/ Mass	RL (mg/L)	
Alkalinity		5	
Carbonate Alkalinity as CaCO ₃		5	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-157038-1
SDG Number: _____
Matrix: Water Instrument ID: Auto_Titrator
Method: SM 2320B XMDL Date: 02/11/2014 10:48

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity		5	5
Carbonate Alkalinity as CaCO3		5	5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-157038-1
SDG Number: _____
Matrix: Water Instrument ID: Konelab1
Method: SM 3500 FE D MDL Date: 12/13/2017 09:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Ferrous Iron		0.1	0.0562

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-157038-1
SDG Number: _____
Matrix: Water Instrument ID: Konelab1
Method: SM 3500 FE D XMDL Date: 12/13/2017 09:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Ferrous Iron		0.1	0.0562

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: NOEQUIP Method: SM 4500 S2 F

Start Date: 05/31/2018 15:51 End Date: 05/31/2018 15:51

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				S 2																	
MB 460-524039/1	1	T	15:51	X																	
ZZZZZZ			15:51																		
LCSSRM 460-524039/3	1	T	15:51	X																	
460-157038-1	1	T	15:51	X																	
460-157038-1 MS	1	T	15:51	X																	
460-157038-1MSD	1	T	15:51	X																	
460-157038-2	1	T	15:51	X																	
460-157038-3	1	T	15:51	X																	

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: NOEQUIP Method: SM 4500 S2 F

Start Date: 05/31/2018 15:58 End Date: 05/31/2018 15:58

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				S 2																	
MB 460-524040/1	1	T	15:58	X																	
ZZZZZZ			15:58																		
LCS 460-524040/3	1	T	15:58	X																	
ZZZZZZ			15:58																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: Auto_Titrator Method: SM 2320B

Start Date: 06/01/2018 11:13 End Date: 06/01/2018 12:41

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A l k	C a r A l k																
RINSE 460-524357/1			11:13																		
MB 460-524357/2	1	T	11:20	X	X																
LCSSRM 460-524357/3	1	T	11:27	X	X																
ZZZZZZ			11:36																		
ZZZZZZ			11:44																		
ZZZZZZ			11:51																		
ZZZZZZ			11:58																		
ZZZZZZ			12:07																		
460-157038-1	1	T	12:15	X	X																
460-157038-1 DU	1	T	12:25	X	X																
460-157038-2	1	T	12:34	X	X																
460-157038-3	1	T	12:41	X	X																

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Instrument ID: Konelab1 Method: SM 3500 FE D

Start Date: 05/30/2018 16:56 End Date: 05/30/2018 17:02

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				F e I r o n																	
ICV 460-523698/1	1		16:56	X																	
ICB 460-523698/2	1		16:56	X																	
MB 460-523698/3	1	T	16:56	X																	
LCS 460-523698/4	1	T	16:56	X																	
ZZZZZZ			16:56																		
ZZZZZZ			16:56																		
460-157038-1	1	T	16:56	X																	
460-157038-2	1	T	16:56	X																	
460-157038-3	1	T	16:56	X																	
ZZZZZZ			16:56																		
ZZZZZZ			16:56																		
460-157038-1 MS	1	T	16:59	X																	
CCV 460-523698/13	1		16:59	X																	
CCB 460-523698/14	1		16:59	X																	
460-157038-1 MSD	1	T	16:59	X																	
CCV 460-523698/16	1		17:02	X																	
CCB 460-523698/17	1		17:02	X																	

Prep Types
T = Total/NA

Batch	Job	Sample	Method	Sample Amt	I ₂ (ml)	Na ₂ S ₂ O ₃	Result	spike	% Rec
		MB		100	5.0	5.8	ND		
		BS(LunEXA)		1/100		4.6	4.31		
		LCS		100		4.5	4.69	597	78.5%
		157038-1L				5.9	ND	84	
		-1LMS				4.8	3.55		82%
		-1LMSD				4.8	3.55		82%
		-2L				5.8	ND		
		-3L				5.8	ND		
		157123-4A				5.8	ND		

524038

524040

176857

187540

B-1004-18

7120626

B-1008-18

0.0226N Na₂S₂O₃0.0271N I₂

6N HCl

STARCH

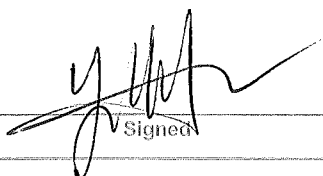
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(11/25/18)

(12/30/18)

(11/30/18)

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Signed

5/31/18

Date

Read and Understood By

Signed

Date

Batch	Job	Sample	Method	Sample Amt	I ₂ (ml)	Na ₂ S ₂ O ₃	Result	spike	% Rec
		MB		100	5.0	5.8	ND		
		BS(LunExt)		1/100		4.6	4.31		
		LCS		100		4.5	4.69	597	78.5%
		157038-1L				5.9	ND	84	
		-1Lms				4.8	3.55		82%
		-1LmsD				4.8	3.55		82%
		-2L				5.8	ND		
		-3L				5.8	ND		
		157123-4A				5.8	ND		

524038

524040

176857

187540

B-1004-18

7120626

B-1008-18

0.0226N Na₂S₂O₃0.0271N I₂

6N Hcl

STARCH

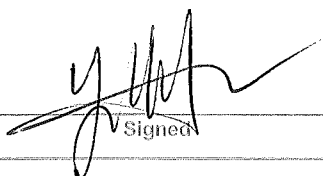
BS

(11/25/18)

(12/30/18)

(11/30/18)

Continued on Page



Signed

5/31/18

Date

Read and Understood By

Signed

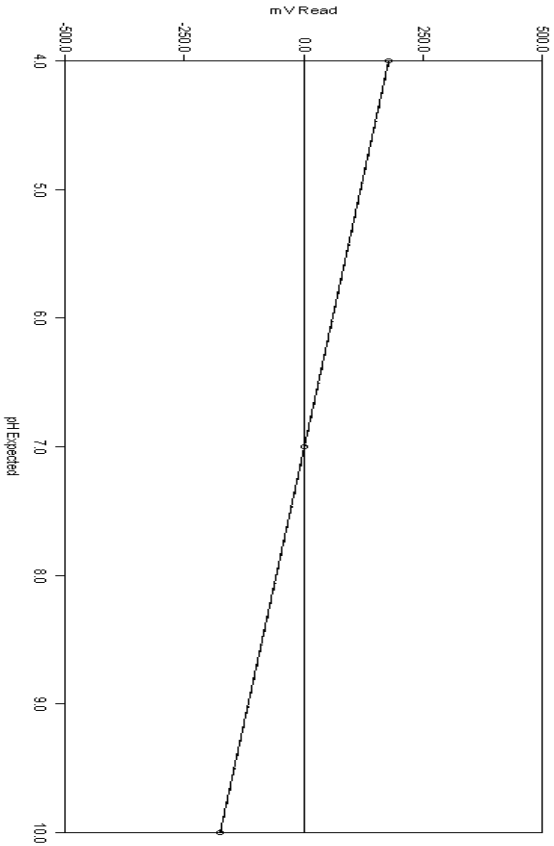
Date

TESTAMERICA- EDISON
Total Alkalinity (SM 2320B), Free Co2 (4500CO2-D)

Run Number	5600							palk (mg/L) as CaCO3	talk (mg/L) as CaCO3	bcarb (mg/L) as CaCO3	carb (mg/L) as CaCO3	hydr (mg/L) as CaCO3	Free CO2 (mg/L) as CaCO3	(mL) H2S04 @ 8.3	(mL) H2S04 @ 4.5	(mL) H2S04 @ 4.2
SampleID	Analysis	Amount	RunDate	RunTime	Temp	pH	pH2									
rinse	Alkalinity	25mL	6/1/2018	11:13 AM	23.47	5.676	.00	0.000	0.632	0.632	0.000	0.000	2.665	0.0000	0.0580	0.1004
mb	Alkalinity	25mL	6/1/2018	11:20 AM	23.39	5.599	.00	0.000	0.114	0.114	0.000	0.000	0.573	0.0000	0.0442	0.0856
lcssrm	Alkalinity	25mL	6/1/2018	11:27 AM	23.06	8.038	.00	0.000	57.204	57.204	0.000	0.000	1.048	0.0000	1.4067	1.4991
460-156997-H-1	Alkalinity	25mL	6/1/2018	11:36 AM	22.57	6.673	.00	0.000	184.210	184.210	0.000	0.000	78.177	0.0000	4.5300	4.7686
460-156997-H-2	Alkalinity	25mL	6/1/2018	11:44 AM	22.63	7.109	.00	0.000	208.276	208.276	0.000	0.000	32.392	0.0000	5.1219	5.2500
460-156997-G-8	Alkalinity	25mL	6/1/2018	11:51 AM	22.93	7.022	.00	0.000	237.614	237.614	0.000	0.000	45.148	0.0000	5.8433	5.9833
460-156997-H-10	Alkalinity	25mL	6/1/2018	11:58 AM	23.27	5.656	.00	0.000	0.363	0.363	0.000	0.000	1.603	0.0000	0.0524	0.0958
460-156878-I-1	Alkalinity	25mL	6/1/2018	12:07 PM	22.63	10.096	.00	18.865	34.881	0.000	32.032	2.848	0.000	0.4639	0.8578	0.9252
460-157038-J-1	Alkalinity	25mL	6/1/2018	12:15 PM	22.42	7.457	.00	0.000	374.050	374.050	0.000	0.000	26.149	0.0000	9.1985	9.3788
460-157038-J-1 du	Alkalinity	25mL	6/1/2018	12:25 PM	22.39	7.459	.00	0.000	356.665	356.665	0.000	0.000	24.814	0.0000	8.7710	8.9089
460-157038-H-2	Alkalinity	25mL	6/1/2018	12:34 PM	22.52	7.411	.00	0.000	346.117	346.117	0.000	0.000	26.898	0.0000	8.5116	8.6438
460-157038-H-3	Alkalinity	25mL	6/1/2018	12:41 PM	22.86	5.750	.00	0.000	0.481	0.481	0.000	0.000	1.711	0.0000	0.0508	0.0897

PC-Titration PLUS
Calibration Report

Calibration Record # 1527



Calibration Settings

Calibration ID	PH CAL 4-7-10	Date	6/1/2018
Channel	1	Time	9:50 AM
Probe Type	pH	Temperature	296.10 K 22.95 C
Probe ID	PH ELECTRODE	Analysis Type	Single Line Fit

Calibration Results

Slope	-58.835	CorrCoeff	1.0000
Intercept	1.790	Equation:	$Y = (-58.835) X + 1.790$

Calibration Validity True

Operator

	Result	Minimum	Maximum
Slope	-58.835	-65.00	-53.00
Intercept	1.790	-100.00	100.00
Correlation Coefficient	1.0000	0.99	1.00

Note: "True" means the calibration was within the specified ranges
"False" means the calibration was NOT within the specified ranges

Calibration Data	Standard	Reading
	4.00	178.58
	7.00	1.22
	10.00	-174.43

5/30/2018 17:37

Test: FE+2

Sample Id	Result	Dil. 1 +	Response	Errors

CCV-Fe	2.0586	0.0	0.187	
CCB-Fe	-0.0059	0.0	0.000	
MB	-0.0106	0.0	0.000	
LCS	0.4854	0.0	0.045	
460-156806-i-1	0.0977	0.0	0.010	
460-156806-h-2	0.0249	0.0	0.003	
460-157038-i-1	0.0179	0.0	0.003	
460-157038-i-2	-0.0132	0.0	-0.000	
460-157038-j-3	-0.0107	0.0	0.000	
460-156806-I-1M	2.2794	0.0	0.207	
460-156806-I-1MS	2.2588	0.0	0.205	
460-157038-I-1M	1.4738	0.0	0.134	
CCV-Fe	2.0938	0.0	0.190	
CCB-Fe	0.0054	0.0	0.001	
460-157038-I-1MS	1.4539	0.0	0.133	
CCV-Fe	2.0747	0.0	0.189	
CCB-Fe	0.0266	0.0	0.003	
N	11			
Mean	0.7325			
SD	0.94492			
CV%	129.00			

5/30/2018 17:38

Test FE+2

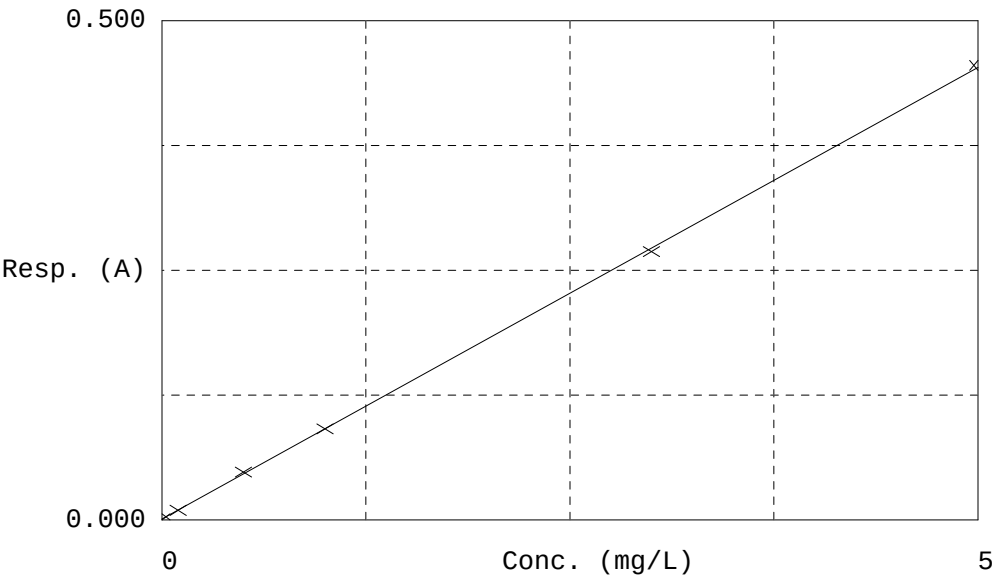
Accepted5/2/201818:02

Factor11.05

Bias0.001

Coeff. of det. 0.999878

Errors Meas. error



	Calibrator	Response	Calc. con.	Conc.	Errors
1	Fe-0	0.001	0.00182	0.00000	
2	Fe-0.1	0.010	0.09666	0.10000	
3	Fe-0.5	0.048	0.52064	0.50000	
4	Fe-1.0	0.091	0.99804	1.00000	
5	Fe-3.0	0.269	2.96111	3.00000	Blank resp. low
6	Fe-5.0	0.455	5.02173	5.00000	

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 524039 Batch Start Date: 05/31/18 15:51 Batch Analyst: Hu, YouhaoBatch Method: SM 4500 S2 F Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	IodineAmount	TitrantVolume1	InitialAmount	FinalAmount	WT-AQ-S2 SP 00480	WT-AQ-S2LCS 00022
MB 460-524039/1		SM 4500 S2 F		5.0 mL	5.8 mL	100 mL	100 mL		
LCSSRM 460-524039/3		SM 4500 S2 F		5.0 mL	4.5 mL	100 mL	100 mL		100 mL
460-157038-L-1	NL-MW-3-20180525	SM 4500 S2 F	T	5.0 mL	5.9 mL	100 mL	100 mL		
460-157038-L-1 MS	NL-MW-3-20180525	SM 4500 S2 F	T	5.0 mL	4.8 mL	100 mL	100 mL	1 mL	
460-157038-L-1 MSD	NL-MW-3-20180525	SM 4500 S2 F	T	5.0 mL	4.8 mL	100 mL	100 mL	1 mL	
460-157038-L-2	NL-MW-DUP-20180525	SM 4500 S2 F	T	5.0 mL	5.8 mL	100 mL	100 mL		
460-157038-L-3	NL-FB-20180525	SM 4500 S2 F	T	5.0 mL	5.8 mL	100 mL	100 mL		

Batch Notes	
Batch Comment	B-0990-18 : BS exp;11/11/18
Normality of Iodine Solution	0.0271 N
Sodium Thiosulfate ID	176857
Nominal Amount Used	100 mL
Normality of First Titrant	0.0236 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 4500 S2 F

Page 1 of 1

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 524040 Batch Start Date: 05/31/18 15:58 Batch Analyst: Hu, YouhaoBatch Method: SM 4500 S2 F Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	WT-AQ-S2LCS 00022				
MB 460-524040/1		SM 4500 S2 F		100 mL					
LCS 460-524040/3		SM 4500 S2 F		100 mL	100 mL				

Batch Notes	
Normality of Iodine Solution	0.0272 N
Sodium Thiosulfate ID	176857
Nominal Amount Used	100 mL
Perform Calculation (0=No, 1=Yes)	1
Normality of First Titrant	0.0236 N

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 4500 S2 F

Page 1 of 1

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 524357 Batch Start Date: 06/01/18 11:13 Batch Analyst: Kamenetskaya, RaisaBatch Method: SM 2320B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	WTalkLCS 00142				
MB 460-524357/2		SM 2320B		InitialAmount is blank					
LCSSRM 460-524357/3		SM 2320B		InitialAmount is blank	25 mL				
460-157038-J-1	NL-MW-3-20180525	SM 2320B	T	InitialAmount is blank					
460-157038-J-1 DU	NL-MW-3-20180525	SM 2320B	T	InitialAmount is blank					
460-157038-H-2	NL-MW-DUP-201805 25	SM 2320B	T	InitialAmount is blank					
460-157038-H-3	NL-FB-20180525	SM 2320B	T	InitialAmount is blank					

Batch Notes	
Acid ID	Hach/A 8081 exp 1/20
pH Buffer 1 ID	PH=4.01 Orion/Wx2 exp 3/20
pH Buffer 2 ID	PH=7.00 Fisher/173426 exp 5/19
pH Buffer 3 ID	PH=10.00 Fisher/178053 exp 11/19
Sodium Carbonate ID	St.d exp 6/18/18
Nominal Amount Used	25 mL
Normality of First Titrant	0.02033 N
Titrant Standardization Date	05/18/2018

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 2320B

Page 1 of 1

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1

SDG No.: _____

Batch Number: 523698 Batch Start Date: 05/30/18 16:56 Batch Analyst: Vu, HuanBatch Method: SM 3500 FE D Batch End Date: 05/30/18 17:46

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	CalcMsg	WTfeSP1 00029	WTfeSP2 00029		
ICV 460-523698/1		SM 3500 FE D		100 mL	Color Resp. is Blank		1 mL		
ICB 460-523698/2		SM 3500 FE D			Color Resp. is Blank				
MB 460-523698/3		SM 3500 FE D			Color Resp. is Blank				
LCS 460-523698/4		SM 3500 FE D		100 mL	Color Resp. is Blank	0.25 mL			
460-157038-I-1	NL-MW-3-20180525	SM 3500 FE D	T		Color Resp. is Blank				
460-157038-I-2	NL-MW-DUP-20180525	SM 3500 FE D	T		Color Resp. is Blank				
460-157038-J-3	NL-FB-20180525	SM 3500 FE D	T		Color Resp. is Blank				
460-157038-I-1 MS	NL-MW-3-20180525	SM 3500 FE D	T	50 mL	Color Resp. is Blank	0.5 mL			
CCV 460-523698/13		SM 3500 FE D		100 mL	Color Resp. is Blank		1 mL		
CCB 460-523698/14		SM 3500 FE D			Color Resp. is Blank				
460-157038-I-1 MSD	NL-MW-3-20180525	SM 3500 FE D	T	50 mL	Color Resp. is Blank	0.5 mL			
CCV 460-523698/16		SM 3500 FE D		100 mL	Color Resp. is Blank		1 mL		
CCB 460-523698/17		SM 3500 FE D			Color Resp. is Blank				

Batch Notes			
Acetate Buffer ID	C-5488-18	exp:08/26/18	
Batch Comment	A(0805-0811)-18	CAL / A(0812)-18	CCV
	exp:06/02/18		
Phenanthroline ID	C-5489-18	exp: 8/26/18	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

SM 3500 FE D

Page 1 of 1

Shipping and Receiving Documents

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 1Page 1446 of 1450

157038

IRGUN

Number of Coolers: 1

IR Gun # 1

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1	27°C	27°C	Cooler #4		°C	Cooler #7		°C
Cooler #2	1°C	1°C	Cooler #5		°C	Cooler #8		°C
Cooler #3	1°C	1°C	Cooler #6		°C	Cooler #9		°C

Page 1447 of 1450

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-157038-1

Login Number: 157038

List Source: TestAmerica Edison

List Number: 1

Creator: Fernandez, Diana X

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-157038-1

Login Number: 157038
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 05/30/18 03:14 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

APPENDIX D

**DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY**

ORGANIC/INORGANIC ANALYSES

**VOLATILE ORGANICS BY GC/MS 8260C
METHANE BY GC METHOD EPA RSK 175
TOTAL METALS (IRON AND SODIUM) BY ICP METHOD 200.7
DISSOLVED MANGANESE BY ICP METHOD 200.7**

And

**CLASSICAL WET CHEMISTRY ANALYSIS
For FERROUS IRON, SULFIDE, CHLORIDE, SULFATE,
CARBONATE ALKALINITY and TOTAL ALKALINITY
For Groundwater Samples Collected**

May 25, 2018

From 3200 Jerome Avenue, Bronx, New York

Collected by AKRF, Inc.

Project No. – 11455

SAMPLE DELIVERY GROUP NUMBER:

460-157038-1

By TestAmerica Edison (ELAP #11452)

and

TestAmerica Buffalo (ELAP # 10026)

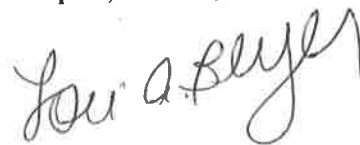
SUBMITTED TO:

**Mr. Mark Jepsen
AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, NY 10016**

June 20, 2018

PREPARED BY:

**Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731**



3200 Jerome Avenue, Bronx, New York – Groundwater Sampling

May 2018 Sampling Event

Data Usability Summary Report (Data Validation): Volatiles, Methane, Iron, Sodium, Dissolved Manganese, Ferrous Iron, Sulfide, Chloride, Sulfate, Total Alkalinity and Carbonate Alkalinity.

Table of Contents:

Introduction

Data Qualifier Definitions

Sample Receipt

- 1.0 Volatile Organics by GC/MS SW846 Method 8260C
 - 1.1 Holding Time
 - 1.2 System Monitoring Compound (Surrogate) Recovery
 - 1.3 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
 - 1.4 Laboratory Control Sample/Blank Spikes
 - 1.5 Blank Contamination
 - 1.6 GC/MS Instrument Performance Check (Tuning)
 - 1.7 Initial and Continuing Calibrations
 - 1.8 Internal Standards
 - 1.9 Field Duplicates
 - 1.10 Target Compound List Identification
 - 1.11 Compound Quantification and Reported Detection Limits
 - 1.12 Overall System Performance
- 2.0 Methane by GC-FID Method EPA RSK175
 - 2.1 Holding Time
 - 2.2 Matrix Spikes (MS), Matrix Spike Duplicates (MSD)
 - 2.3 Laboratory Control Samples
 - 2.4 Blanks
 - 2.5 Calibration Verification
 - 2.6 Field Duplicates
 - 2.7 Target Compound Identification
 - 2.8 Compound Quantification and Reported Detection Limits
 - 2.9 Overall Assessment of Data
- 3.0 Total and Dissolved Metals by ICP Method 200.7
 - 3.1 Holding Times
 - 3.2 Calibration (Initial and Continuing Calibration Verifications)
 - 3.3 Blanks
 - 3.4 Spiked Sample Recovery
 - 3.5 Laboratory/Field Duplicates
 - 3.6 Laboratory Control Sample
 - 3.7 Interference Check Sample
 - 3.8 ICP Serial Dilution
 - 3.9 Sample Results Verification
 - 3.10 Overall Assessment of Data

- 4.0 General Chemistry Data
 - 4.1 Holding Times
 - 4.2 Calibration
 - 4.3 Blanks
 - 4.4 Spiked Sample Recovery
 - 4.5 Laboratory/Field Duplicates
 - 4.6 Laboratory Control Sample
 - 4.7 Sample Results Verification
 - 4.8 Overall Assessment of Data

APPENDICES:

- A. Chain of Custody Documents
- B. Case Narrative
- C. Validated Form I's

Introduction:

A validation was performed on groundwater samples and the associated quality control samples (MS, MSD, Field Duplicate, Field and Trip Blank) for organic/inorganic analysis for samples collected under chain of custody documentation by AKRF, Inc. and submitted to TestAmerica Edison for subsequent analysis. This report contains the laboratory and validation results for the field samples listed below. The groundwater samples were collected on May 25, 2018. Methane analysis was performed by TestAmerica Buffalo.

The samples were analyzed utilizing SW846, EPA and Standard Methods and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing consisted of Volatile Organics, Methane, Select Total (Iron and Sodium) and Dissolved Metals (Manganese), Ferrous Iron, Sulfide, Chloride, Sulfate, Total and Carbonate Alkalinity. The Trip Blank was analyzed for VOA.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic and Inorganic Data Review and EPA Region II SOPs for 8260 and Metals and in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

Sample ID	Lab ID	Matrix	Date Collected	Date Received
NL-MW-3-20180525	460-157038-1	Groundwater	05/25/2018	05/25/2018
NL-MW-DUP-20180525 (Field Duplicate of NL-MW-3-20180525)	460-157038-2	Groundwater	05/25/2018	05/25/2018
NL-FB-20180525	460-157038-3	Aqueous	05/25/2018	05/25/2018
NL-TB-20180525	460-157038-4	Aqueous	05/25/2018	05/25/2018

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ - The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate quantity.

J+ - The result is an estimated quantity, but the result may be biased high.

J- - The result is an estimated quantity, but the result may be biased low.

D - Analyte concentration is from diluted analysis.

Sample Receipt:

The Chain of Custody documents indicates that the samples were received at TestAmerica via courier upon completion of the sampling event on May 25, 2018. Sample login notes were generated. The cooler temperatures for sample receipt was recorded upon receipt at TestAmerica and determined to be acceptable (<6.0 degrees C). The actual temperature for the cooler (2.4 degrees C) is recorded on the sample receipt checklist, chain of custody documents and in the narrative discussion of the lab report.

Sample containers for Methane were shipped via overnight delivery on May 29, 2018 and received May 30, 2018 at TestAmerica Buffalo. Acceptable temperature upon receipt was documented on the sample receipt checklist at 3.7 degrees C.

No unresolved problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good.

The EQUIS electronic spreadsheet included as a separate attachment includes all usable (qualified) and unusable (rejected) results for the samples identified above. The excel spreadsheet and validated Form I's provided in Appendix C summarizes the detailed narrative section of the report.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Volatile Organics by GC/MS SW846 Method 8260C

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results are considered valid and useable and noted in the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be

flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to this SDG were performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis for HCL containers. No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) were found to be within acceptable limits for all four (4) surrogate compounds for all analyses pertaining to this SDG.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analysis was conducted on NL-MW-3-20180525 as requested by AKRF. Bromomethane recovered above limits (208%) in the MS and (212%) in the MSD. This target analyte was not detected in any of the associated field samples and therefore high recovery does not support any potential loss of detection and/or result bias. No qualifications are required based on these outliers. Trichloroethene was not recoverable in the MS and MSD due to high concentration in the parent sample (940 ug/L) relative to spike amount (100 ug/L). Based on professional judgment, the data was not qualified. LCS was acceptable. RPD for Chloromethane (48%) also fell outside limits. Based on professional judgment, the data was not qualified.

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

Acceptable LCS/LCS duplicates were analyzed. Recovery values were acceptable for all spiked analytes except for Bromomethane (192%) in the LCS associated with NL-MW-3-20180525 and NL-MW-DUP-20180525. No qualifications are required since this compound was not detected in the field samples.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field, Trip, Instrument	Detects	Not Detected	No qualification required
	<CRQL*	<CRQL*	Report CRQL value with a U
		>= CRQL* and <2x the CRQL**	No qualification required
	>CRQL*	<= CRQL*	Report CRQL value with a U
		>= CRQL* and <= blank concentration	Report blank value for sample concentration with a U
		>= CRQL* and > blank concentration	No qualification required
	=CRQL*	<= CRQL*	Report CRQL value with a U
		>CRQL*	No qualification required
	Gross Contamination**	Detects	Report blank value for sample concentration with a U

*2x the CRQL for methylene chloride, 2-butanone and acetone.

**4x the CRQL for methylene chloride, 2-butanone, and acetone

***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

No target analytes were detected in the method blanks associated with sample analysis.

B) Field Blank Contamination:

Methylene Chloride (0.89 ug/L) was detected in NL-FB-20180525. The laboratory reported concentrations of this compound has been negated, "U" in NL-MW-3-20180525 and N-MW-DUP-20180525.

C) Trip Blank Contamination:

Methylene Chloride (3.6 ug/L) was detected in NL-TB-20180525. The laboratory reported concentrations in field samples were negated, "U."

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can produce acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance. Initial calibration verifications were acceptable.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R". Method 8260C allows for a minimum response factor of 0.1 for Acetone and 2-Butanone. Validation criteria allows response factor to be ≥ 0.01 for poor responders (Acetone, MEK, Carbon Disulfide, Chloroethane, Chloromethane, Cyclohexane, 1,2-Dibromoethane, Dichlorodifluoromethane, cis-1,2-Dichloroethene, 1,2-Dichloropropane, 1,2-Dibromo-3-chloropropane, Isopropylbenzene, Methyl Acetate, Methylene Chloride, Methylcyclohexane, MTBE, trans-1,2-Dichloroethene, 4-Methyl-2-Pentanone, 2-Hexanone, Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-Trifluoroethane).

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05) and (≥ 0.01 for poor responders) and minimum response criteria in Table 4 of Method 8260C, for the initial and continuing calibrations for all reported analytes.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 20\%$ and %D must be $< 20\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is $> 20\%$ and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists. Closing CCV must meet 30% criteria. Poor responders must be $\leq 40\%$.

*Method 8260C allows for several analytes to be outside requirements due to the large number of compounds.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) and (40% for poor responders) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) and (40% for poor responders) for all reported compounds except for:

CCAL 6/1/18 CVOAMS12 – Bromomethane – 111%; non-detects in NL-MW-3-20180525 and NL-MW-DUP-20180525 have been qualified, “UJ.”

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all the positive results for compounds quantitated using that IS are qualified as estimated, “J”, and all non-detects as “UJ”, or “R” if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards TBA-d9, Fluorobenzene, 1,4-Dioxane-d8, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with this SDG.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Generally, for water samples an acceptable RPD is 25%. The following criteria are utilized for Field Duplicate analysis:

Criteria	Detected Compounds	Non-Detected Compounds
The RPD is within the limits of 0 and 25%	No qualification	No qualification
The RPD >25%	J in the parent and duplicate samples	Not applicable
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample. However, the detected concentration was $\leq 2x$ the reporting limit	No qualification	No qualification
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample. However, the detected concentration was $> 2x$ the reporting limit.	J in the parent or duplicate sample	UJ in the parent of duplicate sample

NL-MW-3-20180525 was selected for Field Duplicate analysis (NL-MW-DUP-2018525). Acceptable RPD was observed for detected analytes except for Ethylbenzene (44%), Cyclohexane (40%) and Methylcyclohexane (40%). Results in the parent and field duplicate have been qualified, "J."

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within $\pm 0.06RRT$ units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is acceptable. Correct internal standards per SW846, response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Samples were analyzed undiluted with the following exceptions:

**NL-MW-3-20180525 – 1:5
NL-MW-DUP-20180525 0 1:5**

Raw concentration for Trichloroethene was within the upper half of the instruments linear calibration range as required and therefore laboratory dilution was appropriate. There is potential that some lower level hits were lost in dilution. Reporting limits have been adjusted accordingly to account for sample dilution.

1.12 Overall System Performance

Good resolution and chromatographic performance were observed.

2.0 Methane by EPA Method RSK175 by GC-FID.

The following method criteria were reviewed: holding times, MS, MSD, LCS, Blanks, Analytical Sequences, Calibrations, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The Methane results analyzed by TestAmerica Buffalo are considered valid and usable as noted within the following text:

2.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be

flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were analyzed within the method required holding times and the technical holding times required for data validation (14 days for methane in groundwater).

2.2 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

The National Functional Guidelines indicate that MS/MSD data alone shall not be utilized to qualify sample data.

Aqueous MS/MSD analysis was conducted for Methane on NL-MW-3-20180525. Acceptable RPD was observed (31%). Recovery values in the MS (280%) fell above in-house limit of 150% due to high sample concentration (360 ug/L) relative to spike amount (85.5 ug/L). Acceptable MSD recovery 91%) was obtained. Based on professional judgment, no qualifications to the data were made.

2.3 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/LCS Duplicate was analyzed for Methane. Recovery values were acceptable. No qualifications were applied for groundwater analyses.

2.4 Blanks

Quality assurance (QA) blanks; i.e. method, instrument, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Instrument blanks measure carryover for cross contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Methane	Sample Conc. is >CRQL, but $\leq 1 \times$ blank value	Sample Conc. Is <CRQL and $\leq 1 \times$ blank value	Sample Conc. is >CRQL and $> 1 \times$ blank value

Method blanks were performed at the appropriate frequency.
Below is a summary of blank contamination:

A) Method Blank Contamination:

No target analytes were detected in the associated method blank and no data validation qualifiers were required based upon method blank data.

B) Field Blank Contamination:

Methane was not detected in NL-FB-20180525.

2.5 Calibration Verification

Initial and continuing calibration sequence was performed as required for individual Methane standards. Acceptable retention times were obtained for all analysis and GC resolution is acceptable for both columns.

Linearity criteria (20%) for the initial standards have been satisfied for both columns.

Continuing calibration verifications:

For Methane analysis, acceptable percent difference is 15%.

No qualifications have been applied based on these criteria.

2.6 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples.

Groundwater sample NL-MW-3-20180525 was collected as a field duplicate; NL-MW-DUP-2018525. Acceptable precision was observed (360 ug/L vs. 450 ug/L)/

The following criteria are utilized for Field Duplicate analysis:

Criteria	Detected Compounds	Non-Detected Compounds
The RPD is within the limits of 0 and 25%	No qualification	No qualification
The RPD >25%	J in the parent and duplicate samples	Not applicable
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample. However, the detected concentration was $\leq 2 \times$ the reporting limit	No qualification	No qualification
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample. However, the detected concentration was $> 2 \times$ the reporting limit.	J in the parent or duplicate sample	UJ in the parent of duplicate sample

2.7 Target Compound Identification

Qualitative criteria for compound identification have been established to minimize the number of false positives and false negatives. The retention times of all target analytes have been verified in the samples to that of the analyzed reference standards

Sample chromatograms were reviewed for the presence of Methane detection. Acceptable percent difference ($<10\%$) was observed when primary and confirmatory column RPD was calculated.

2.8 Compound Quantification and Reported Detection Limits

TCL compounds are identified on the GC by using the analyte's relative retention time (RRT) and by comparison to the primary column and the secondary confirmation column data. The laboratory reported the lower of the concentrations for primary/confirmatory column results as required.

2.9 Overall System Performance

Acceptable system performance was maintained throughout the analysis of all samples. Good resolution and chromatographic performance were observed.

NL-MW-3-20180525 and NL-MW-DUP-20180525 were analyzed at dilutions of 1:11. Raw methane concentrations were within the instruments linear range.

3.0 Total and Dissolved Metals by ICP SW846 Method 200.7

The following method criteria were reviewed: holding times, CRDL standards, calibration, blanks, MS, laboratory duplicates, LCS, interference check sample, ICP serial dilutions and sample results verification. The Iron, Sodium and Dissolved Manganese (lab filtered) results are valid and usable with the appropriate qualifiers as notated in the following text:

3.1 Holding Times

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were digested and analyzed for Total Iron, Total Sodium and Dissolved Manganese within the method required holding times and the technical holding times for data validation (180 days). No qualifications were applied based upon holding time criteria. Dissolved Manganese samples were filtered and preserved at the laboratory and allowed to settle for 24 hours prior to digestion as required.

3.2 Calibration (ICV/CCV)

Satisfactory instrument calibration is established to ensure that the instruments can produce acceptable quantitative data. An initial calibration demonstrates that the instruments can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instruments are giving satisfactory sequential performance and that the initial calibration is still valid.

The ICP was calibrated utilizing a minimum of a four-point curve in addition to blanks at the beginning of each analytical run. The calibrations have been determined to be acceptable, yielding correlation coefficients of 0.995 or greater.

For ICP analysis, satisfactory instrument performance near the Contract Required Detection Limit (CRDL) was demonstrated by analyzing a CRDL standard at the beginning and end of the analytical run. The instruments were calibrated properly by analyzing the CRDL solution at

the correct levels and analyzed at the required frequency at the beginning and end of each analytical run.

All recoveries were within acceptable limits of 90-110 % for initial calibration pertaining to field samples.

Continuing calibrations were within acceptable limits of 90-110% recovery of the true values for ICP (80-120%) for all field samples.

No qualifications were applied based upon ICV/CCV analysis.

3.3 Blanks

Quality assurance (QA) blanks, i.e. method, field or preparation blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Preparation blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

All digestion/prep/ICB/CCB/Field blanks were generated within acceptable limits yielding final concentrations less than the CRDL/Reporting limit.

3.4 Spiked Sample Recovery

The spike data are generated to determine the long terms precision and accuracy of the analytical method in various matrices.

Aqueous spike recoveries are qualified based on the criteria below:

<30% - "R" all detects and non-detects

Between 30%-74% - results $\geq$ MDL "J" and non-detects "UJ"

Between 126-150% - results $\geq$ MDL "J" and

>150% - results $\geq$ MDL "R"

MS/MSD analysis was conducted on NL-MW-3-20180525. Acceptable recovery values were obtained where the sample concentration was determined to be $<4x$ the spike level. Post digestion spike analysis yielded low Iron (73%). Results in NL-MW-3-20180525 for Iron must be considered estimated, biased low, "J-." Acceptable post digestion spike recovery was obtained for Sodium and Manganese.

3.5 Laboratory/Field Duplicates

The laboratory uses duplicate sample determinations to demonstrate acceptable method precision at the time of analysis. Duplicate analyses are also performed to generate data to determine the long-term precision of the analytical method on various matrices.

Laboratory Duplicates:

RPD >20% but <100% - J detected concentrations

RPD >=100% - R all detected and non-detected concentrations

Laboratory duplicate analysis was conducted on NL-MW-3-20180525. Acceptable RPD was observed for Iron, Sodium and Dissolved Manganese.

Field Duplicates:

RPD >=35% but <120% - qualify sample and duplicate results >= CRQL "J"

RPD >= 120% - rejected sample and duplicate results >= CRQL "R"

Field Duplicate analysis (NL-MW-DUP-20180525) was collected on NL-MW-3-20180525. Acceptable precision was observed for Sodium, Iron and Dissolved Manganese. No qualifications were required.

3.6 Laboratory Control Sample

The laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous and solid Laboratory Control samples shall be analyzed for each analyte utilizing the same sample preparation, analytical methods and QA/QC procedures as employed for the samples.

The LCS was analyzed and reported for Iron, Sodium and Dissolved Manganese. Associated LCS recoveries were within the acceptable limits for Metals analyses (80-120%).

3.7 Interference Check Sample

The interference check sample (ICS) verifies the laboratory's interelement and background correction factors. The ICS consists of two solutions A and AB. Solution A consists of interference, and solution AB consists of the analytes mixed with interferents.

SW846 Method 6010 requires solution A and solution AB to be analyzed separately. The recoveries for the ICP interference check sample were all within the acceptable limits of 80-120%. No data qualifications were made based upon ICS analysis.

3.8 ICP Serial Dilution

The serial dilution of samples quantitated by ICP determines whether significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution analysis must be performed on a sample for each group of samples with a similar matrix type and concentration, or for each Sample Delivery Group (SDG), whichever is more frequent.

Acceptable ICP serial dilutions were performed at a 5-fold dilution as required by the method where the initial concentration is equal or greater than 50x MDL. The serial dilution analysis agrees within a 10% difference of the original determination after correction for dilution for all Iron, Sodium and Dissolved Manganese.

3.9 Sample Results Verification

Analyte quantitation was generated in accordance with protocols. The raw data was verified and found within the linear range of each instrument used for quantitation. Raw data supplied corresponds with reported values. Verification of the calculations yielded reported results.

Metals analysis resulted in acceptable results.

3.10 Overall Assessment of Data

The data generated were of acceptable quality. All analysis was conducted undiluted.

For the Metals analysis results are usable at the concentrations presented on the EQUIS spreadsheet and validated Form I's.

4.0 General Chemistry Analysis

All samples were analyzed at TestAmerica Edison for Sulfide by Standard Method 4500 S2 F, Total and Carbonate Alkalinity by SM2320 B and Ferrous Iron by SM 4500 FE D. Ion Chromatography analysis (Method 300.0) was performed by TestAmerica Edison for Sulfate and Chloride. The results are considered valid and usable with qualifications for Ferrous Iron as notated in the following text.

4.1 Holding Times

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Analysis was performed within the method holding times for Sulfide, Chloride, Total and Carbonate Alkalinity and Sulfate. Ferrous Iron was analyzed outside the recommended 15-minute holding time. Non-detects have been qualified, "UJ" based on professional judgment in NL-MW-3-20180525, NL-MW-DUP-20180525 and NL-FB-20180525.

4.2 Calibration

Acceptable ICVs and CCVs were analyzed for each technology. No qualifications were applied based upon calibration data.

4.3 Blanks

Quality assurance (QA) blanks, i.e. method, field or preparation blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Preparation blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

Acceptable method blanks were analyzed as dictated by each analytical method. No qualifications were required based on blank data. Chloride was detected in NL-FB-20180525 at 1.26 mg/L. Sample results are not impacted since sample detections were significantly higher than the field blank level.

4.4 Spiked Sample Recovery

The spike data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

NL-MW-3-20180525 was selected by AKRF for MS/MSD analysis. Sulfate and Chloride were not recoverable due to high sample concentration relative to spike amount. Based on professional judgment, the data was not qualified since acceptable LCS recovery values are obtained. Acceptable recovery values were obtained for Sulfide. Ferrous Iron recovered low (74%/73%). No additional qualifiers are required since Ferrous Iron was previously qualified, "UJ" due to holding time.

4.5 Laboratory/Field Duplicates

The laboratory uses duplicate sample determinations to demonstrate acceptable method precision at the time of analysis. Duplicate analyses are also performed to generate data to determine the long-term precision of the analytical method on various matrices.

Field Duplicate analysis was conducted on NL-MW-3-20180525. Acceptable precision was observed for each method.

Acceptable precision was observed for laboratory duplicate on NL-MW-3-20180525 for Alkalinity.

4.6 Laboratory Control Sample

The laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous and solid Laboratory Control samples shall be analyzed for each analyte utilizing the same sample preparation, analytical methods and QA/QC procedures as employed for the samples.

Acceptable LCS and LCS Duplicate were analyzed for all methods.

4.7 Sample Results Verification

Analyte quantitation was generated in accordance with protocols. The instrument logs were verified and found within the linear ranges of each instrument used for quantitation.

Sulfate and Chloride were analyzed at various dilutions.

4.8 Overall Assessment of Data

The data was of acceptable quality.

Reviewer's Signature Lou A. Beyer Date 06/20/2018

**Appendix A
Chain of Custody
Documents**

NYSC
460501

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Mark Sepsen		Samplers Name (Printed) M. Sepsen / T. McIntosh		Site/Project Identification 3200 Seroma Ave.		Page 1 of 1	
Company AKRF, Inc.		P.O. # 11455		State (Location of site): NJ		Other: NY	
Address 440 Park Ave. South		Regulatory Program: MSDEC BCP		DKQP: ☐		LAB USE ONLY Project No: 157038	
City New York		State NY		Analysis Requested (ENTER "X" BELOW TO INDICATE REQUEST)		Job No: 157038	
Phone 646-388-9567		Fax		Analysis Requested (ENTER "X" BELOW TO INDICATE REQUEST)		Sample Numbers	
Sample Identification		Date	Time	Matrix	No. of Cont.		
NL-MW-3-20180525	5/25/18	130	Water	12			
NL-MW-3-MS-20180525		130					
NL-MW-3-MSD-20180525		130					
NL-MW-DUP-20180525		1150					
NL-FB-20180525		1200					
NL-TB-20180525							
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH		Soil:		Water:			
6 = Other		7 = Other					

Special Instructions Cat-B Deliverables		Water Metals Filtered (Yes/No)?	
Relinquished by Mark Sepsen	Company AKRF, Inc.	Date / Time 5/25/18 12:10	Received by F. B
Relinquished by	Company	Date / Time	Received by
2) F. B	Company	5/25/18 4:40	2) Kelly J
Relinquished by	Company	Date / Time	Received by
3) F. B	Company		3) F. B
Relinquished by	Company	Date / Time	Received by
4) F. B	Company		4) F. B

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record



TestAmerica

THE UNIVERSITY OF TEXAS AT AUSTIN

Client Information (Sub Contract Lab) Client Contact: _____ Shipping/Receiving: _____ Company: _____		Lab PM: _____ Haas, Melissa E-Mail: _____ melissa.haas@testamerica.com		Carrier Tracking No(s): _____ 460-51706.1 State of Origin: _____ New York Page: _____ Page 1 of 1		COC No: _____ 460-51706.1 Job #: _____ 460-157038-1	
Address: _____ 10 Hazelwood Drive, City: _____ Amherst State, Zip: _____ NY, 14228-2298 Phone: _____ 716-691-2600(Tel) 716-691-7991(Fax) Email: _____							
Due Date Requested: _____ 6/1/2018 TAT Requested (days): _____							
PO #: _____ WO #: _____ Project #: _____ 46009503 SOW#: _____							
Project Name: _____ 3200 Jerome Ave Site: _____							
Analysis Requested							
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anhydrous H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCA W - pH 4-5 Z - other (specify) _____ Other: _____							
Special Instructions/Note: _____							
Total Number of Containers: _____							
RSK, 175/ Methane							
Perform MS/MSD (Yes or No)							
Field Filtered Sample (Yes or No)							
Preservation Code: _____							
Sample Date: _____							
Sample Time: _____							
Sample Type (C=Comp, G=Grab)							
Matrix (V=Water, S=Solid, O=Organic, A=Air)							
NL-MW-3-20180525 (460-157038-1)							
NL-MW-3-20180525 (460-157038-1MS)							
NL-MW-3-20180525 (460-157038-1MSD)							
NL-MW-DUP-20180525 (460-157038-2)							
NL-FB-20180525 (460-157038-3)							
Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. The sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.							
Possible Hazard Identification							
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____							
Empty Kit Relinquished by: _____							
Relinquished by: _____							
Relinquished by: _____							
Relinquished by: _____							
Custody Seal Intact: _____ Yes No							
Custody Seal No.: _____							
Date/Time: _____ 5/29/18 1800 Company: _____ Company: _____ Company: _____							
Date/Time: _____ 5/30/18 1030 Company: _____ Company: _____ Company: _____							
Date/Time: _____ 5/31/18 330 Company: _____ Company: _____ Company: _____							
Date/Time: _____ 6/1/18 330 Company: _____ Company: _____ Company: _____							
Date/Time: _____ 6/1/18 330 Company: _____ Company: _____ Company: _____							

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-157038-1

Login Number: 157038

List Source: TestAmerica Edison

List Number: 1

Creator: Fernandez, Diana X

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ ($1/4"$).	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-157038-1

Login Number: 157038

List Number: 2

Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo

List Creation: 05/30/18 03:14 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix B
Case Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: 3200 Jerome Ave

Report Number: 460-157038-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

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

RECEIPT

The samples were received on 5/25/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. The number of containers for the field blank on COC lists 12 but 10 were received.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2), NL-FB-20180525 (460-157038-3) and NL-TB-20180525 (460-157038-4) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 06/01/2018.

The continuing calibration verification (CCV) associated with batch 460-524327 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-524327 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Trichloroethene failed the recovery criteria low for the MS of sample NL-MW-3-20180525MS (460-157038-1) in batch 460-524327. Bromomethane failed the recovery criteria high.

For the MSD of sample NL-MW-3-20180525MSD (460-157038-1) in batch 460-524327, Chloromethane and Trichloroethene failed the recovery criteria low. Bromomethane failed the recovery criteria high. Also, Chloromethane exceeded the RPD limit.

Refer to the QC report for details.

Samples NL-MW-3-20180525 (460-157038-1)[5X] and NL-MW-DUP-20180525 (460-157038-2)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED GASES

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were

analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 05/31/2018.

Due to the high concentration of the analyte Methane, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-417210 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Methane failed the recovery criteria high for the MS of sample NL-MW-3-20180525MS (460-157038-1) in batch 480-417210.

Refer to the QC report for details.

Samples NL-MW-3-20180525 (460-157038-1)[11X] and NL-MW-DUP-20180525 (460-157038-2)[11X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the dissolved gases analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED METALS

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for dissolved metals in accordance with EPA Method 200.7 (ICP). The samples were prepared on 05/31/2018 and analyzed on 06/01/2018.

No difficulties were encountered during the dissolved metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL RECOVERABLE METALS

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for total recoverable metals in accordance with EPA Method 200.7 (ICP). The samples were prepared on 05/30/2018 and analyzed on 06/01/2018.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

ALKALINITY

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for alkalinity in accordance with SM 2320B. The samples were analyzed on 06/01/2018.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

ANIONS

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for anions in accordance with EPA Method 300_ORGFM_28D Anions by Ion Chromatograph. The samples were analyzed on 05/27/2018.

Due to the high concentration of Sulfate and Chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 460-522878 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Refer to the QC report for details.

Samples NL-MW-3-20180525 (460-157038-1)[160X], NL-MW-DUP-20180525 (460-157038-2)[100X] and NL-FB-20180525 (460-157038-3)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the anions analysis.

All other quality control parameters were within the acceptance limits.

FERROUS IRON

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for ferrous iron in accordance with SM 3500 FE D. The samples were analyzed on 05/30/2018.

Ferrous Iron failed the recovery criteria low for the MS of sample NL-MW-3-20180525MS (460-157038-1) in batch 460-523698.

Ferrous Iron failed the recovery criteria low for the MSD of sample NL-MW-3-20180525MSD (460-157038-1) in batch 460-523698.

Refer to the QC report for details.

No other difficulties were encountered during the ferrous iron analysis.

All other quality control parameters were within the acceptance limits.

SULFIDE

Samples NL-MW-3-20180525 (460-157038-1), NL-MW-DUP-20180525 (460-157038-2) and NL-FB-20180525 (460-157038-3) were analyzed for sulfide in accordance with SM 4500 S2 F. The samples were analyzed on 05/31/2018.

No difficulties were encountered during the sulfide analysis.

All quality control parameters were within the acceptance limits.

Job Number: 460-157038-1
Job Description: 3200 Jerome Ave

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Approved for release.
Thomas A Chupela
Project Management Assistant I
6/4/2018 1:51 PM

Designee for
Melissa Haas

Appendix C
Validated Form I's

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-MW-3-20180525

Lab Sample ID: 460-157038-1

Matrix: Water

Lab File ID: O396474.D

Analysis Method: 8260C

Date Collected: 05/25/2018 11:30

Sample wt/vol: 5(mL)

Date Analyzed: 06/01/2018 18:56

Soil Aliquot Vol: _____

Dilution Factor: 5

Soil Extract Vol.: _____

GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 524327

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.1	U	5.0	1.1
74-83-9	Bromomethane	0.90	U	5.0	0.90
75-01-4	Vinyl chloride	1.0	J	5.0	0.30
75-00-3	Chloroethane	1.9	U	5.0	1.9
75-09-2	Methylene Chloride	1.2	J	5.0	1.1
67-64-1	Acetone	14	J	25	5.4
75-15-0	Carbon disulfide	1.1	U	5.0	1.1
75-69-4	Trichlorofluoromethane	0.75	U	5.0	0.75
75-35-4	1,1-Dichloroethene	1.7	U	5.0	1.7
75-34-3	1,1-Dichloroethane	1.2	U	5.0	1.2
156-60-5	trans-1,2-Dichloroethene	5.7		5.0	0.90
156-59-2	cis-1,2-Dichloroethene	29		5.0	1.3
67-66-3	Chloroform	14		5.0	1.1
107-06-2	1,2-Dichloroethane	1.3	U	5.0	1.3
78-93-3	2-Butanone	11	U	25	11
71-55-6	1,1,1-Trichloroethane	1.4	U	5.0	1.4
56-23-5	Carbon tetrachloride	1.7	U	5.0	1.7
75-27-4	Bromodichloromethane	0.75	U	5.0	0.75
78-87-5	1,2-Dichloropropane	0.90	U	5.0	0.90
10061-01-5	cis-1,3-Dichloropropene	0.80	U	5.0	0.80
79-01-6	Trichloroethene	940		5.0	1.1
124-48-1	Dibromochloromethane	1.1	U	5.0	1.1
79-00-5	1,1,2-Trichloroethane	0.40	U	5.0	0.40
71-43-2	Benzene	6.0		5.0	0.45
10061-02-6	trans-1,3-Dichloropropene	0.95	U	5.0	0.95
75-25-2	Bromoform	0.90	U	5.0	0.90
108-10-1	4-Methyl-2-pentanone	3.2	U	25	3.2
591-78-6	2-Hexanone	3.6	U	25	3.6
127-18-4	Tetrachloroethene	1.2	J	5.0	0.60
79-34-5	1,1,2,2-Tetrachloroethane	0.95	U	5.0	0.95
108-88-3	Toluene	1.3	U	5.0	1.3
108-90-7	Chlorobenzene	1.2	U	5.0	1.2
100-41-4	Ethylbenzene	5.2	J	5.0	1.5
100-42-5	Styrene	0.85	U	5.0	0.85
1330-20-7	Xylenes, Total	1.4	U	10	1.4
76-13-1	Freon TF	1.7	U	5.0	1.7

Signature
6/20/18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-MW-3-20180525

Lab Sample ID: 460-157038-1

Matrix: Water

Lab File ID: 0396474.D

Analysis Method: 8260C

Date Collected: 05/25/2018 11:30

Sample wt/vol: 5 (mL)

Date Analyzed: 06/01/2018 18:56

Soil Aliquot Vol: _____

Dilution Factor: 5

Soil Extract Vol.: _____

GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 524327

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.91	J	5.0	0.65
110-82-7	Cyclohexane	24	J	5.0	1.3
106-93-4	1,2-Dibromoethane	0.95	U	5.0	0.95
541-73-1	1,3-Dichlorobenzene	1.7	U	5.0	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	5.0	1.7
95-50-1	1,2-Dichlorobenzene	1.1	U	5.0	1.1
75-71-8	Dichlorodifluoromethane	0.70	U	5.0	0.70
120-82-1	1,2,4-Trichlorobenzene	1.4	U	5.0	1.4
96-12-8	1,2-Dibromo-3-Chloropropane	1.2	U	5.0	1.2
98-82-8	Isopropylbenzene	3.3	J	5.0	1.6
108-87-2	Methylcyclohexane	9.6	J	5.0	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	Bromofluorobenzene	115		77-124
1868-53-7	Dibromofluoromethane (Surr)	102		72-131

for 6/20/18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-MW-DUP-20180525

Lab Sample ID: 460-157038-2

Matrix: Water

NL-MW-3-20180525

Lab File ID: 0396475.D

Analysis Method: 8260C

Date Collected: 05/25/2018 11:50

Sample wt/vol: 5(mL)

Date Analyzed: 06/01/2018 19:24

Soil Aliquot Vol: _____

Dilution Factor: 5

Soil Extract Vol.: _____

GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 524327

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	1.1	U	5.0	1.1
74-83-9	Bromomethane	0.90	U	5.0	0.90
75-01-4	Vinyl chloride	0.91	J	5.0	0.30
75-00-3	Chloroethane	1.9	U	5.0	1.9
75-09-2	Methylene Chloride	1.3	J	5.0	1.1
67-64-1	Acetone	13	J	25	5.4
75-15-0	Carbon disulfide	1.1	U	5.0	1.1
75-69-4	Trichlorofluoromethane	0.75	U	5.0	0.75
75-35-4	1,1-Dichloroethene	1.7	U	5.0	1.7
75-34-3	1,1-Dichloroethane	1.2	U	5.0	1.2
156-60-5	trans-1,2-Dichloroethene	4.6	J	5.0	0.90
156-59-2	cis-1,2-Dichloroethene	25		5.0	1.3
67-66-3	Chloroform	12		5.0	1.1
107-06-2	1,2-Dichloroethane	1.3	U	5.0	1.3
78-93-3	2-Butanone	11	U	25	11
71-55-6	1,1,1-Trichloroethane	1.4	U	5.0	1.4
56-23-5	Carbon tetrachloride	1.7	U	5.0	1.7
75-27-4	Bromodichloromethane	0.75	U	5.0	0.75
78-87-5	1,2-Dichloropropane	0.90	U	5.0	0.90
10061-01-5	cis-1,3-Dichloropropene	0.80	U	5.0	0.80
79-01-6	Trichloroethene	760		5.0	1.1
124-48-1	Dibromochloromethane	1.1	U	5.0	1.1
79-00-5	1,1,2-Trichloroethane	0.40	U	5.0	0.40
71-43-2	Benzene	4.8	J	5.0	0.45
10061-02-6	trans-1,3-Dichloropropene	0.95	U	5.0	0.95
75-25-2	Bromoform	0.90	U	5.0	0.90
108-10-1	4-Methyl-2-pentanone	3.2	U	25	3.2
591-78-6	2-Hexanone	3.6	U	25	3.6
127-18-4	Tetrachloroethene	1.0	J	5.0	0.60
79-34-5	1,1,1,2,2-Tetrachloroethane	0.95	U	5.0	0.95
108-88-3	Toluene	1.3	U	5.0	1.3
108-90-7	Chlorobenzene	1.2	U	5.0	1.2
100-41-4	Ethylbenzene	3.3	J	5.0	1.5
100-42-5	Styrene	0.85	U	5.0	0.85
1330-20-7	Xylenes, Total	1.4	U	10	1.4
76-13-1	Freon TF	1.7	U	5.0	1.7

6/12/2018

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-MW-DUP-20180525

Lab Sample ID: 460-157038-2

Matrix: Water

Lab File ID: 0396475.D

Analysis Method: 8260C

Date Collected: 05/25/2018 11:50

Sample wt/vol: 5 (mL)

Date Analyzed: 06/01/2018 19:24

Soil Aliquot Vol.: _____

Dilution Factor: 5

Soil Extract Vol.: _____

GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 524327

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.76	J	5.0	0.65
110-82-7	Cyclohexane	16	J	5.0	1.3
106-93-4	1,2-Dibromoethane	0.95	U	5.0	0.95
541-73-1	1,3-Dichlorobenzene	1.7	U	5.0	1.7
106-46-7	1,4-Dichlorobenzene	1.7	U	5.0	1.7
95-50-1	1,2-Dichlorobenzene	1.1	U	5.0	1.1
75-71-8	Dichlorodifluoromethane	0.70	U	5.0	0.70
120-82-1	1,2,4-Trichlorobenzene	1.4	U	5.0	1.4
96-12-8	1,2-Dibromo-3-Chloropropane	1.2	U	5.0	1.2
98-82-8	Isopropylbenzene	2.2	J	5.0	1.6
108-87-2	Methylcyclohexane	5.4	J	5.0	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		74-132
2037-26-5	Toluene-d8 (Surr)	89		80-120
460-00-4	Bromofluorobenzene	108		77-124
1868-53-7	Dibromofluoromethane (Surr)	95		72-131

Jan
6/20/18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Matrix: Water

Lab File ID: O396447.D

Analysis Method: 8260C

Date Collected: 05/25/2018 12:00

Sample wt/vol: 5(mL)

Date Analyzed: 06/01/2018 04:12

Soil Aliquot Vol: _____

Dilution Factor: 1

Soil Extract Vol.: _____

GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 524141

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.22	U	1.0	0.22
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
75-00-3	Chloroethane	0.37	U	1.0	0.37
75-09-2	Methylene Chloride	0.89	J	1.0	0.21
67-64-1	Acetone	1.1	U	5.0	1.1
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
67-66-3	Chloroform	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-93-3	2-Butanone	2.2	U	5.0	2.2
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
79-01-6	Trichloroethene	0.22	U	1.0	0.22
124-48-1	Dibromochloromethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
71-43-2	Benzene	0.090	U	1.0	0.090
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
75-25-2	Bromoform	0.18	U	1.0	0.18
108-10-1	4-Methyl-2-pentanone	0.63	U	5.0	0.63
591-78-6	2-Hexanone	0.72	U	5.0	0.72
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
108-88-3	Toluene	0.25	U	1.0	0.25
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
100-42-5	Styrene	0.17	U	1.0	0.17
1330-20-7	Xylenes, Total	0.28	U	2.0	0.28
76-13-1	Freon TF	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Matrix: Water

Lab File ID: O396447.D

Analysis Method: 8260C

Date Collected: 05/25/2018 12:00

Sample wt/vol: 5(mL)

Date Analyzed: 06/01/2018 04:12

Soil Aliquot Vol: _____

Dilution Factor: 1

Soil Extract Vol.: _____

GC Column: DB-624 ID: 0.18 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 524141

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.13	U	1.0	0.13
110-82-7	Cyclohexane	0.26	U	1.0	0.26
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		74-132
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	Bromofluorobenzene	113		77-124
1868-53-7	Dibromofluoromethane (Surr)	104		72-131

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG No.: _____

Client Sample ID: NL-TB-20180525

Lab Sample ID: 460-157038-4

Matrix: Water

Lab File ID: 0396445.D

Analysis Method: 8260C

Date Collected: 05/25/2018 00:00

Sample wt/vol: 5(mL)

Date Analyzed: 06/01/2018 03:16

Soil Aliquot Vol: _____

Dilution Factor: 1

Soil Extract Vol.: _____

GC Column: DB-624

ID: 0.18(mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 524141

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	0.22	U	1.0	0.22
74-83-9	Bromomethane	0.18	U	1.0	0.18
75-01-4	Vinyl chloride	0.060	U	1.0	0.060
75-00-3	Chloroethane	0.37	U	1.0	0.37
75-09-2	Methylene Chloride	3.6		1.0	0.21
67-64-1	Acetone	1.1	U	5.0	1.1
75-15-0	Carbon disulfide	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.15	U	1.0	0.15
75-35-4	1,1-Dichloroethene	0.34	U	1.0	0.34
75-34-3	1,1-Dichloroethane	0.24	U	1.0	0.24
156-60-5	trans-1,2-Dichloroethene	0.18	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
67-66-3	Chloroform	0.22	U	1.0	0.22
107-06-2	1,2-Dichloroethane	0.25	U	1.0	0.25
78-93-3	2-Butanone	2.2	U	5.0	2.2
71-55-6	1,1,1-Trichloroethane	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.33	U	1.0	0.33
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
78-87-5	1,2-Dichloropropane	0.18	U	1.0	0.18
10061-01-5	cis-1,3-Dichloropropene	0.16	U	1.0	0.16
79-01-6	Trichloroethene	0.22	U	1.0	0.22
124-48-1	Dibromochloromethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.080	U	1.0	0.080
71-43-2	Benzene	0.090	U	1.0	0.090
10061-02-6	trans-1,3-Dichloropropene	0.19	U	1.0	0.19
75-25-2	Bromoform	0.18	U	1.0	0.18
108-10-1	4-Methyl-2-pentanone	0.63	U	5.0	0.63
591-78-6	2-Hexanone	0.72	U	5.0	0.72
127-18-4	Tetrachloroethene	0.12	U	1.0	0.12
79-34-5	1,1,2,2-Tetrachloroethane	0.19	U	1.0	0.19
108-88-3	Toluene	0.25	U	1.0	0.25
108-90-7	Chlorobenzene	0.24	U	1.0	0.24
100-41-4	Ethylbenzene	0.30	U	1.0	0.30
100-42-5	Styrene	0.17	U	1.0	0.17
1330-20-7	Xylenes, Total	0.28	U	2.0	0.28
76-13-1	Freon TF	0.34	U	1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
 SDG No.: _____
 Client Sample ID: NL-TB-20180525 Lab Sample ID: 460-157038-4
 Matrix: Water Lab File ID: O396445.D
 Analysis Method: 8260C Date Collected: 05/25/2018 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 06/01/2018 03:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 524141 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	MTBE	0.13	U	1.0	0.13
110-82-7	Cyclohexane	0.26	U	1.0	0.26
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19
541-73-1	1,3-Dichlorobenzene	0.33	U	1.0	0.33
106-46-7	1,4-Dichlorobenzene	0.33	U	1.0	0.33
95-50-1	1,2-Dichlorobenzene	0.22	U	1.0	0.22
75-71-8	Dichlorodifluoromethane	0.14	U	1.0	0.14
120-82-1	1,2,4-Trichlorobenzene	0.27	U	1.0	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	0.23	U	1.0	0.23
98-82-8	Isopropylbenzene	0.32	U	1.0	0.32
108-87-2	Methylcyclohexane	0.22	U	1.0	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	Bromofluorobenzene	115		77-124
1868-53-7	Dibromofluoromethane (Surr)	104		72-131

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-3-20180525 Lab Sample ID: 460-157038-1
Matrix: Water Lab File ID: 21_11_223.D
Analysis Method: RSK-175 Date Collected: 05/25/2018 11:30
Sample wt/vol: 17 (mL) Date Analyzed: 05/31/2018 13:36
Soil Aliquot Vol.: _____ Dilution Factor: 11
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	360		44	11

Low
6/20/18

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-DUP-20180525 Lab Sample ID: 460-157038-2
Matrix: Water NL-MW-3-20180525 Lab File ID: 21_11_238.D
Analysis Method: RSK-175 Date Collected: 05/25/2018 11:50
Sample wt/vol: 17 (mL) Date Analyzed: 05/31/2018 17:58
Soil Aliquot Vol: _____ Dilution Factor: 11
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	450		44	11

Signature
6/20/18

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-FB-20180525 Lab Sample ID: 460-157038-3
Matrix: Water Lab File ID: 21_11_227.D
Analysis Method: RSK-175 Date Collected: 05/25/2018 12:00
Sample wt/vol: 17 (mL) Date Analyzed: 05/31/2018 14:46
Soil Aliquot Vol.: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Alumina ID: 0.53 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 417210 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	1.0	U	4.0	1.0

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: NL-MW-3-20180525

Lab Sample ID: 460-157038-1

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 11:30

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	5960	150	111	ug/L		J-	1	200.7 Rev 4.4
7440-23-5	Sodium	268000	5000	846	ug/L			1	200.7 Rev 4.4

Signature
6/20/18

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: NL-MW-3-20180525

Lab Sample ID: 460-157038-1

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 11:30

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-96-5	Manganese	1430	15.0	5.0	ug/L			1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: NL-MW-DUP-20180525

Lab Sample ID: 460-157038-2

Lab Name: TestAmerica Edison

NL-MW-3-20180525

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 11:50

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	7380	150	111	ug/L			1	200.7 Rev 4.4
7440-23-5	Sodium	272000	5000	846	ug/L			1	200.7 Rev 4.4

*Sanja
6/20/18*

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: NL-MW-DUP-20180525

Lab Sample ID: 460-157038-2

Lab Name: TestAmerica Edison

NL-MW-3-20180525

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 11:50

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-96-5	Manganese	1510	15.0	5.0	ug/L			1	200.7 Rev 4.4

John R. 6/1/2018

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 12:00

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-89-6	Iron	111	150	111	ug/L	U		1	200.7 Rev 4.4
7440-23-5	Sodium	846	5000	846	ug/L	U		1	200.7 Rev 4.4

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 12:00

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-96-5	Manganese	5.0	15.0	5.0	ug/L	0		1	200.7 Rev 4.4

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-3-20180525 DL2 Lab Sample ID: 460-157038-1 DL2
Matrix: Water Lab File ID: 460-0072739-028_TAIEDIIC2_Anio
Analysis Method: 300.0 Date Collected: 05/25/2018 11:30
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 14:34
Con. Extract Vol.: _____ Dilution Factor: 160
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	320		96.0	53.1
16887-00-6	Chloride	401		19.2	12.5

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-MW-DUP-20180525 DL2 Lab Sample ID: 460-157038-2 DL2
Matrix: Water NL-MW-3-20180525 Lab File ID: 460-0072739-032_TAIEDIIC2_Anio
Analysis Method: 300.0 Date Collected: 05/25/2018 11:50
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 15:45
Con. Extract Vol.: _____ Dilution Factor: 100
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	323		60.0	33.2
16887-00-6	Chloride	425		12.0	7.80

Signature
6/12/18

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-FB-20180525 Lab Sample ID: 460-157038-3
Matrix: Water Lab File ID: 157038-3_TAIEDIIC2_Anions_2018
Analysis Method: 300.0 Date Collected: 05/25/2018 12:00
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 16:32
Con. Extract Vol.: _____ Dilution Factor: 1
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522969 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	0.33	U	0.60	0.33

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-157038-1
SDG No.: _____
Client Sample ID: NL-FB-20180525 DL Lab Sample ID: 460-157038-3 DL
Matrix: Water Lab File ID: 460-0072739-033_TAIEDIIC2_Anio
Analysis Method: 300.0 Date Collected: 05/25/2018 12:00
Extraction Method: _____ Date Extracted: _____
Sample wt/vol: 10 (mL) Date Analyzed: 05/27/2018 08:42
Con. Extract Vol.: _____ Dilution Factor: 10
Injection Volume: 10 (uL) GC Column: Metrosep A ID: 4 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 522878 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
16887-00-6	Chloride	1.26		1.20	0.78

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-MW-3-20180525

Lab Sample ID: 460-157038-1

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 11:30

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	0.58	1.0	0.58	mg/L	U		1	SM 4500 S2 F
15438-31-0	Ferrous Iron	0.056	0.10	0.056	mg/L	U	HE UJ	1	SM 3500 FE D

Signature
5/26/2018

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-MW-3-20180525

Lab Sample ID: 460-157038-1

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 11:30

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Carbonate Alkalinity as CaCO ₃	5.0	5.0		mg/L	U		1	SM 2320B
	Alkalinity	374	5.0		mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-MW-DUP-20180525 *NL-MW-3-20180525* Lab Sample ID: 460-157038-2

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/25/2018 11:50

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	0.58	1.0	0.58	mg/L	U		1	SM 4500 S2 F
15438-31-0	Ferrous Iron	0.056	0.10	0.056	mg/L	U	HF <i>UJ</i>	1	SM 3500 FE D

Sau Bui
06/20/18

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-MW-DUP-20180525 *NL-MW-3-201805* Lab Sample ID: 460-157038-2

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.: _____

Matrix: Water

Date Sampled: 05/25/2018 11:50

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Carbonate Alkalinity as CaCO ₃	5.0	5.0		mg/L	U		1	SM 2320B
	Alkalinity	346	5.0		mg/L			1	SM 2320B

SAUP
6/20/18

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 12:00

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
18496-25-8	Sulfide	0.58	1.0	0.58	mg/L	U		1	SM 4500 S2 F
15438-31-0	Ferrous Iron	0.056	0.10	0.056	mg/L	U	HF UJ	1	SM 3500 FE D

for 6/20/18

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: NL-FB-20180525

Lab Sample ID: 460-157038-3

Lab Name: TestAmerica Edison

Job No.: 460-157038-1

SDG ID.:

Matrix: Water

Date Sampled: 05/25/2018 12:00

Reporting Basis: WET

Date Received: 05/25/2018 18:40

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
	Carbonate Alkalinity as CaCO ₃	5.0	5.0		mg/L	U		1	SM 2320B
	Alkalinity	5.0	5.0		mg/L	U		1	SM 2320B