2017 PERIODIC REVIEW REPORT

FRANCZYK PARK SITE
550-564 Babcock Street
Buffalo, New York
NYSDEC ID: B00174

17-039-1144

Prepared for:

City of Buffalo
Office of Strategic Planning
Division of Environmental Affairs

Prepared by:

LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York 14209

December 20, 2017

Table of Contents

List of Figures

List of Tables

List of Appendices

1.0 Introduction

LiRo Engineers, Inc. (LiRo) has prepared this Periodic Review Report (PRR) on behalf of the City of Buffalo (COB) to summarize the post remedial status of the New York State Department of Environmental Conservation (NYSDEC) State Assistance Contract (SAC) Site No. B00174, located at 550 and 564 Babcock Street in the City of Buffalo, Erie County, New York (the "Site"; see Figure 1).

This PRR has been prepared for the Franczyk Park Site in accordance with NYSDEC Division of Environmental Remediation (DER)-10 *Technical Guidance for Site Investigation and Remediation.* The NYSDEC Institutional and Engineering Controls (IC/EC) Certification Form has been completed for the Site (Appendix A). This PRR and associated inspection form have been completed for the post-remedial activities at the Site for the reporting period from May 11, 2016 to September 30, 2017.

1.1 Background Information

The Franczyk Park Site (Site) is located at 550 and 564 Babcock Street in the City of Buffalo, Erie County, New York (Figure 1).

The Site is a public park composed of two adjoining parcels totaling an approximately 16.5-acre area bounded by Lyman Street to the north, Fleming Street to the south, New Babcock Street to the east, and Lewis Street to the west. The Site is generally rectangular in shape and is in an area that is zoned for industrial use. Land use in the vicinity of the Site is characterized as a mixture of commercial, industrial, and residential. Residential properties are located on the south side of Fleming Street and on the west side of Lewis Street.

The Site was first developed by Buffalo Fertilizing Chemical Works, (L.L. Crocker) as an agricultural fertilizer manufacturing facility. These manufacturing operations lasted almost a century while the facility underwent a number of name changes during its tenure as a fertilizer manufacturing facility. The parcel adjoining the northwest corner of the Site was sold to the Thaddeus Joseph Dulski Community Center, Inc. in 1975. The following year, the remainder of the Site was sold to the Industrial Refining Corporation and then to Car Salvage World in 1977. The Site was used as an automobile junk yard in the final years until Car Salvage World went bankrupt in 1981. The Brondy Real Estate Co. acquired the Site and later sold it to the City of Buffalo in 1984. The City of Buffalo redeveloped the Site into a park in 1987.

1.2 Regulatory History

The City of Buffalo entered into a SAC with the NYSDEC to complete a Site Investigation/Remedial Alternatives Report (SI/RAR) for the Site. The Site investigation, performed in the fall of 2003 and the spring of 2004, identified contaminated subsurface soil/fill throughout the Site as well as a minor amount of contaminated surface soil/fill in some high traffic areas.

Following the completion of the SI, an SI/RAR was prepared to describe the approach and results of the investigation, and provided an assessment of the risks posed by the contaminants encountered. The report also described the process used to develop and evaluate alternatives for addressing the contaminated media at the Site. Based on the SI/RAR, a Proposed Remedial Action Plan (PRAP) was prepared. The PRAP

was finalized in the March 2005 Record of Decision (ROD) following receipt of public input. The ROD presents the remedies that were selected by NYSDEC and the New York State Department of Health (NYSDOH) to address the identified contamination.

A Remedial Action Work Plan (RAWP) was prepared in March 2006 to describe the specific remedial activities that were proposed for the Site. In December 2006, the City of Buffalo entered into an agreement with a contractor to implement the RAWP.

On June 15, 2016, a Certificate of Completion was issued by NYSDEC indicating approval of the Final Engineering Report and satisfactory completion of the remediation phase of the environmental restoration project.

2.0 Site Overview

The Franczyk Park Site is an approximately 16.5 acre public park located at 550 and 564 Babcock Street in the City of Buffalo, Erie County, New York (Figure 1). The environmental restoration of the park was completed in 2016 and the Site Management Plan (SMP) prepared by KHEOPS Architecture, Engineering, & Survey, DPC (KHEOPS) was implemented in 2016 by the City of Buffalo.

3.0 Site Management

3.1 Monitoring and Maintenance Program

3.1.1 Site Inspection and Certification

In accordance with NYSDEC DER-10 6.3(a)(4), this PRR is to provide the information necessary to document the basis for the IC/EC certification. The certification primarily consists of a Site inspection to complete the NYSDEC's IC/EC Certification Form in order to confirm:

- That the IC/ECs are in place, performing properly, and remain effective;
- that nothing has occurred that would impair the ability of the controls to protect the public health and environment;
- that nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls; and,
- that access is available to the Site to evaluate continued maintenance of such controls.

An initial Site inspection of the property was conducted on October 17, 2017 by a LiRo employee who meets the requirements of a Qualified Environmental Professional (QEP) and the NYSDEC project manager. The initial Site inspection included the following components:

- inspection of the Site Soil cover system;
- inspection of the groundwater containment system (interceptor trenches);
- inspection of the site access and security systems; and,
- locating Site monitoring wells (MW-3, MW-5, MW-7, and MW-8) shown on Figure 2.

The Site soil cover system included a complete walk of the entire Site area. During the inspection of the soil cover system, maintenance activities at the Site were observed, including lawn mowing, trimming, and trash removal. Distressed vegetation was observed in the center portion of the southern soccer field. The southern soccer field vegetative cover was found to be damaged in approximately 10 to 15 percent of the soccer field area. Evidence of erosion, vehicle ruts, ponding water, tree and brush growth, and protruding objects were not observed within the Site area.

During the initial Site inspection none of the four Site monitoring wells were found.

LiRo returned to the Site on October 20, 2017 with a metal detector and was able to locate three of the four Site monitoring wells including, MW-3, MW-7 and MW-8. Each of the identified monitoring wells was completed with an at-grade protective surface casing and at each location, the Site vegetative cover had grown over the protective cover lids making it difficult to locate the wells.

Prior to sampling the monitoring wells on October 24, 2017, LiRo made an additional attempt to locate monitoring well MW-5 with the use of the metal detector. A surface casing lid was found in the mapped vicinity of MW-5 and the area was hand excavated to a depth of approximately 2 feet. No evidence of a monitoring well was found. It is presumed that at some point, the lid was knocked off of the protective casing (possibly during mowing) and the well has become buried.

The inspection of the groundwater containment system including inspection of interceptor trench cleanouts and sewer tie-ins. No obstructions were observed within the interceptor trench system.

The Site monitoring wells were found to be in generally good condition; however, vegetative creep is occurring over the protective casings at the monitoring wells. Despite the vegetative creep, three of the four Site monitoring wells were located. The locations of the located Site monitoring wells were surveyed with a handheld GPS unit to aid in identifying these locations in the future.

At the time of the inspection, the Site was in compliance with the IC/ECs. Appendix A includes the completed IC/ECs Certification form and Appendix B contains the completed Site inspection form. Appendix C provides a photographic log showing the current conditions of the Site at the time of the inspections.

3.1.2 Groundwater Monitoring

The SMP specifies that groundwater sampling would be performed at four down-gradient monitoring wells (MW-3, MW-5, MW-7, and MW-8) on an annual basis and would include analysis of Target Compound List (TCL) Semi-Volatile Organic Compounds (SVOCs) and Target Analyte List (TAL) metals. Sampling of the monitoring wells is to be conducted using low-flow sampling procedures.

As previously discussed, one groundwater monitoring well (MW-5) was not located. As a result, MW-5 was not sampled during this groundwater monitoring event.

The following groundwater monitoring activities were performed during this first PRR reporting period to assess Site conditions:

- groundwater sample collection from monitoring wells MW-3, MW-7, and MW-8 using low-flow sampling techniques;
- analysis of field parameters (pH, oxidation-reduction potential, temperature, turbidity, and specific conductivity) at each monitoring well during the low-flow sampling procedure;
- analysis of the collected samples for TCL SVOCs and TAL Metals by a New York State Department of Health (NYSDEC) environmental laboratory approval program (ELAP)-certified laboratory;
- inspection and documentation of the structural integrity of the monitoring wells;
- global Positioning System (GPS) survey of monitoring well locations; and,

- collection of groundwater elevation data from the sampled monitoring wells (MW-03, MW-07, and MW-08).

Groundwater level monitoring and sampling was performed on October 24, 2017. Table 1 provides a summary of the groundwater elevation data for the Site monitoring wells.

Monitoring wells were purged and sampled using standard low-flow techniques. A "blind" duplicate sample (MW-D) was collected from monitoring well MW-3 as a quality assurance/quality control (QA/QC) check.

Field measured turbidity was found in exceedance of 50 nephelometric turbidity units (NTU) at monitoring wells MW-3 and MW-8. An additional field filtered sample was collected for analysis of TAL metals at these two locations.

Purged groundwater was collected and contained in 5-gallon plastic buckets until the completion of sampling. The collected groundwater was discharged to the interceptor trench collection system after sample collection.

Field parameters measured at each of the sampled monitoring wells are summarized in Table 2. TCL SVOC analytical results are presented in Table 3. TAL metals analytical results are presented in Table 4. Monitoring well purge and sample logs are provided in Appendix D. Laboratory analytical reports are provided in Appendix E.

3.2 Institutional and Engineering Control Requirements and Compliance

The following engineering and institutional controls (IC/ECs) are to be maintained as a requirement of the SAC for the Site:

- **Engineering Controls**: Engineering controls (ECs) for the Site consist of a soil cover system and a groundwater containment system.

  The Site soil cover system and Site groundwater containment system are operating as designed and are being maintained and monitored as required.

- **Institutional Controls**: Institutional controls (ICs) for the Site consist of a groundwater use restriction, an IC/EC plan, a land use restriction, a monitoring plan, a SMP, and a soil management plan.

  The monitoring and maintenance activities are being conducted.

4.0 Conclusions and Recommendations

Conclusions from the monitoring, maintenance, and inspection activities performed during the current PRR reporting period are as follows.

- At the time of the Site inspection, the Site was in compliance with the ECs/ICs including: groundwater monitoring, inspection, and maintenance of the groundwater monitoring wells; inspection and maintenance of the groundwater containment system; and, inspection and maintenance of the Site soil cover system.

- TCL SVOC analytical results obtained from monitoring wells MW-3 and MW-7 during October 2017 indicate that no detectable concentrations of SVOCs are present in either of these wells.

- TCL SVOC analytical results obtained from monitoring well MW-8 during October 2017 indicate that that SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were present at detectable concentrations. With the exception of benzo(g,h,i)perylene, which does not have an ambient water quality standard or guidance value (AWQSGV), the detected concentrations of these SVOCs exceed their respective AWQSGVs.

- TAL metals analytical results obtained from monitoring wells MW-3, MW-7, and MW-8 during October 2017 indicate detectable concentrations of metals in each of the monitoring wells sampled. Arsenic, barium, beryllium, cadmium, chromium, copper, iron, magnesium, manganese, sodium, lead, selenium, and/or mercury were found at concentrations exceeding the Class “GA” AWQSGVs in each of the monitoring wells sampled.

- Based on visual inspection, the groundwater monitoring wells were observed to be structurally sound with the following exceptions:
    - MW-3 is missing the J-plug;
    - MW-5 could not be located and has likely incurred some type of damage;
    - MW-8 was observed to have standing water present within the curb box. and,

- Based on physical inspection, the groundwater monitoring wells were found to be free of obstructions and a minimal amount of silt accumulation was observed in each of the inspected wells.

Based on the conclusions presented above, the Site has been in operation and in compliance with the SMP since the Certificate of Completion was issued by NYSDEC on June 15, 2016. LiRo recommends the following with regards to the operation, maintenance, and monitoring at the Site.

- Monitoring well MW-5 should be replaced prior to the next Site inspection and groundwater monitoring event.

- A “weep hole” should be installed in the bottom of the curb box at monitoring well MW-8 to prevent the accumulation of water within the curb box.

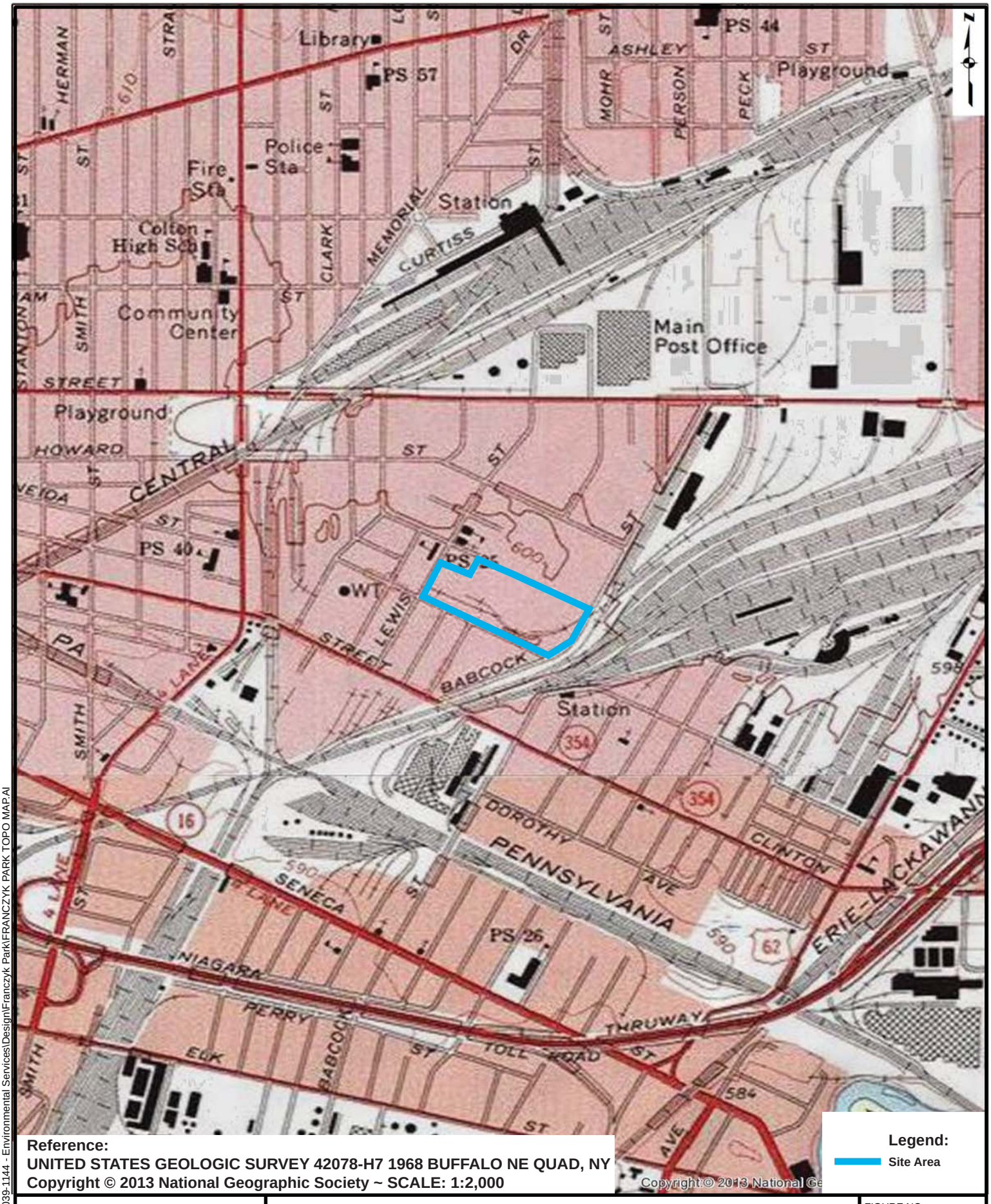
- A J-plug should be installed at MW-3 to prevent water from entering the well in the event that the curb box becomes flooded.

- Site inspections should continue to be performed annually.

- Groundwater monitoring should continue to be performed annually. and,

- Areas of the southern soccer field should be re-seeded after the ground thaws next spring.

Figures



Reference:
UNITED STATES GEOLOGIC SURVEY 42078-H7 1968 BUFFALO NE QUAD, NY
Copyright © 2013 National Geographic Society ~ SCALE: 1:2,000

Legend:
Site Area

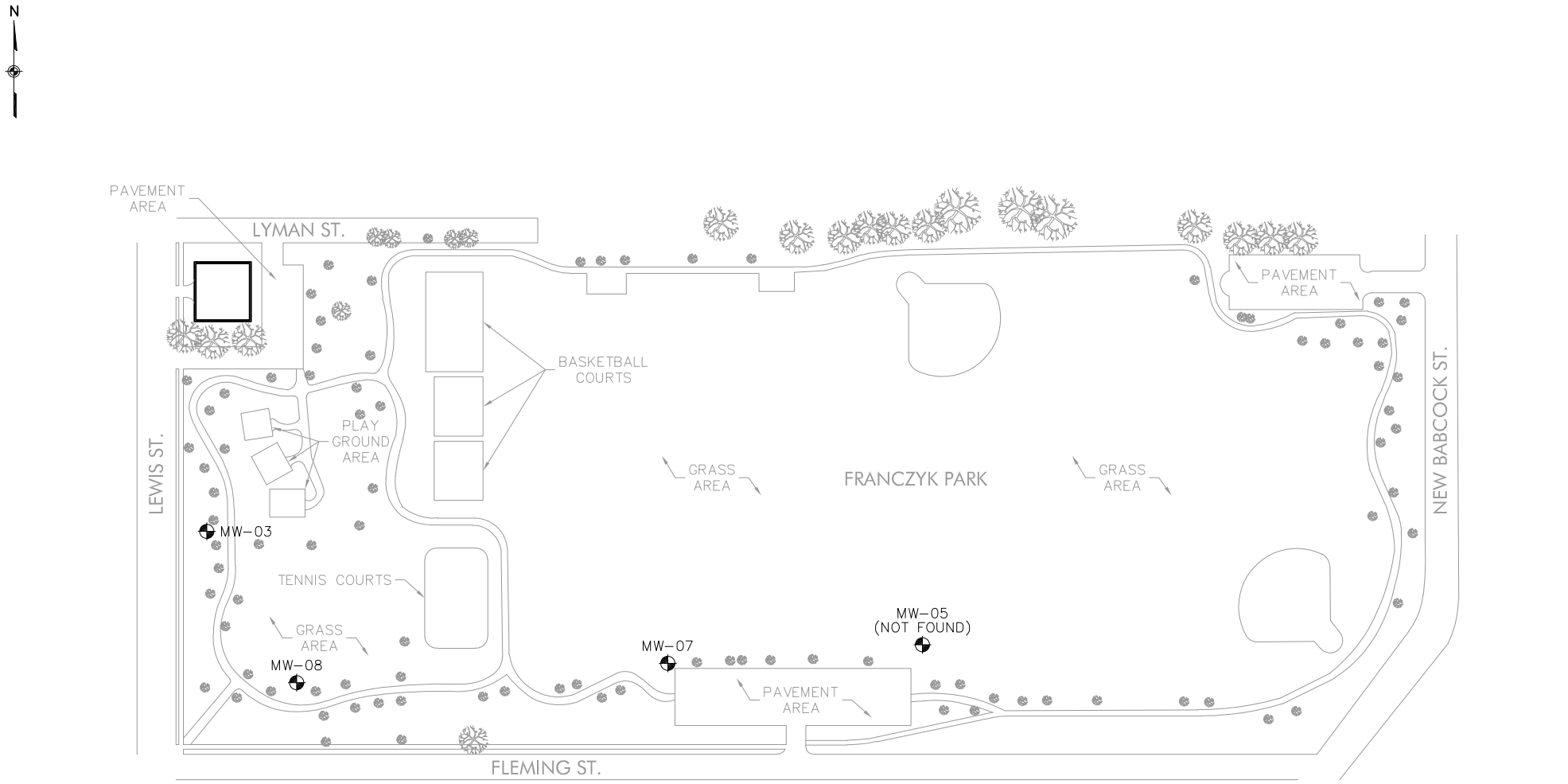
LiRo-Engineers, Inc.
690 Delaware Ave.
Buffalo, New York

FRANCZYK PARK
SITE TOPOGRAPHIC LOCATION MAP

FIGURE NO.

1

V:\City of Buffalo\17-039-1144 - Environmental Services\Design\Franczyk Park\FRANCZYK PARK TOPO MAP.AI



LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York

FRANCZYK PARK
SITE PLAN

FIGURE NO.

2

Tables

TABLE 1

SUMMARY OF GROUNDWATER ELEVATIONS
OCTOBER 2017 MONITORING EVENT

Franczyk Park Site (B00174)
City of Buffalo, New York

Well ID	Top of Casing Elevation[1]	10/24/17 Depth to Water (ft. BTOC)	Groundwater Elevation[1]
MW-03	21.86	5.23	16.63
MW-05	23.11	NM	NA
MW-07	19.7	2.82	16.88
MW-08	21.34	5.16	16.18

Notes:
1 - City of Buffalo Datum
ft. BTOC - feet below top of casing.
NM - Not measured
NA - Not available

TABLE 2

SUMMARY OF GROUNDWATER FIELD PARAMETERS
OCTOBER 2017 MONITORING EVENT
FRANCZYK PARK SITE (B00174)
CITY OF BUFFALO, NEW YORK

PARAMETER	Class "GA" AWQSGVs[1]	Monitoring Location			
		MW-03	MW-05	MW-07	MW-08
Field Measurements					
pH (standard units)	6.5 - 8.5	**4.19**	NM	**6.45**	6.89
Temperature (°C)	NS	14.1	NM	15.11	16.21
Specific Conductance (mS/cm)	NS	7.99	NM	2.58	3.98
Turbidity (NTU)	5	**574**	NM	**35.2**	**653**
ORP (mV)	NS	112	NM	-12	-64
Dissolved Oxygen (mg/L)	NS	2.8	NM	3.65	4.29
Appearance (visual)	NS	Turbid	NM	Clear	Turbid
Odor (olfactory)	NS	None	NM	None	Sulfurous

Notes:

1 - NYSDEC Class "GA" Ambient Groundwater Quality Standards/Guidance Values (AWQSGVs) as per 6 NYCRR Part 703.3

Bold - Concentration exceeds NYS Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards/Guidance Values - Class GA Waters

NM - Not measured.

NS - No Standard; an AWQSGV has not been established for this parameter.

TABLE 3

TCL SVOC ANALYTICAL RESULTS
OCTOBER 2017 MONITORING EVENT
FRANCZYK PARK SITE (B00174)
BUFFALO, NEW YORK

TCL SVOC	Class "GA" AWQSGVs[1]	Well ID, Sample ID, & Date Collected		
		MW-3[2]	MW-7	MW-8
		MW-3	MW-7	MW-8
		10/24/2017	10/24/2017	10/25/2017
1,2,4-Trichlorobenzene	5	9.4 U	9.4 U	19 U
1,2-Dichlorobenzene	3	9.4 U	9.4 U	19 U
1,3-Dichlorobenzene	3	9.4 U	9.4 U	19 U
1,4-Dichlorobenzene	3	9.4 U	9.4 U	19 U
2,4,5-Trichlorophenol	NS	9.4 U	9.4 U	19 U
2,4,6-Trichlorophenol	NS	9.4 U	9.4 U	19 U
2,4-Dichlorophenol	5	9.4 U	9.4 U	19 U
2,4-Dimethylphenol	50	9.4 U	9.4 U	19 U
2,4-Dinitrophenol	10	47 U	47 U	94 U
2,4-Dinitrotoluene	5	9.4 U	9.4 U	19 U
2,6-Dinitrotoluene	5	9.4 U	9.4 U	19 U
2-Chloronaphthalene	10	9.4 U	9.4 U	19 U
2-Chlorophenol	NS	9.4 U	9.4 U	19 U
2-Methylnaphthalene	NS	9.4 U	9.4 U	19 U
2-Methylphenol	NS	9.4 U	9.4 U	19 U
2-Nitroaniline	5	47 U	47 U	94 U
2-Nitrophenol	NS	9.4 U	9.4 U	19 U
3,3'-Dichlorobenzidine	5	9.4 U	9.4 U	19 U
3- and 4-Methylphenol Coelution	NS	9.4 U	9.4 U	19 U
3-Nitroaniline	5	47 U	47 U	94 U
4,6-Dinitro-2-methylphenol	NS	47 U	47 U	94 U
4-Bromophenyl Phenyl Ether	NS	9.4 U	9.4 U	19 U
4-Chloro-3-methylphenol	NS	9.4 U	9.4 U	19 U
4-Chloroaniline	5	9.4 U	9.4 U	19 U
4-Chlorophenyl Phenyl Ether	NS	9.4 U	9.4 U	19 U
4-Nitroaniline	5	47 U	47 U	94 U
4-Nitrophenol	NS	47 U	47 U	94 U
Acenaphthene	20	9.4 U	9.4 U	19 U
Acenaphthylene	NS	9.4 U	9.4 U	19 U
Anthracene	50	9.4 U	9.4 U	19 U
Benz(a)anthracene	0.002	9.4 U	9.4 U	**60**
Benzo(a)pyrene	ND	9.4 U	9.4 U	**80**
Benzo(b)fluoranthene	0.002	9.4 U	9.4 U	**97**
Benzo(g,h,i)perylene	NS	9.4 U	9.4 U	66
Benzo(k)fluoranthene	0.002	9.4 U	9.4 U	**36**
Benzyl Alcohol	NS	9.4 U	9.4 U	19 U
2,2'-Oxybis(1-chloropropane)	NS	9.4 U	9.4 U	19 U
Bis(2-chloroethoxy)methane	NS	9.4 U	9.4 U	19 U
Bis(2-chloroethyl) Ether	1	9.4 U	9.4 U	19 U
Bis(2-ethylhexyl) Phthalate	5	9.4 U	9.4 U	19 U
Butyl Benzyl Phthalate	50	9.4 U	9.4 U	19 U
Carbazole	NS	9.4 U	9.4 U	19 U
Chrysene	0.002	9.4 U	9.4 U	**65**
Di-n-butyl Phthalate	NS	9.4 U	9.4 U	19 U
Di-n-octyl Phthalate	50	9.4 U	9.4 U	19 U
Dibenz(a,h)anthracene	NS	9.4 U	9.4 U	19 U
Dibenzofuran	NS	9.4 U	9.4 U	19 U

TABLE 3

TCL SVOC ANALYTICAL RESULTS
OCTOBER 2017 MONITORING EVENT
FRANCZYK PARK SITE (B00174)
BUFFALO, NEW YORK

TCL SVOC	Class "GA" AWQSGVs[1]	Well ID, Sample ID, & Date Collected		
		MW-3[2]	MW-7	MW-8
		MW-3	MW-7	MW-8
		10/24/2017	10/24/2017	10/25/2017
Diethyl Phthalate	50	9.4 U	9.4 U	19 U
Dimethyl Phthalate	50	9.4 U	9.4 U	19 U
Fluoranthene	50	9.4 U	9.4 U	**120**
Fluorene	50	9.4 U	9.4 U	19 U
Hexachlorobenzene	0.04	9.4 U	9.4 U	19 U
Hexachlorobutadiene	0.5	9.4 U	9.4 U	19 U
Hexachlorocyclopentadiene	5	9.4 U	9.4 U	19 U
Hexachloroethane	5	9.4 U	9.4 U	19 U
Indeno(1,2,3-cd)pyrene	0.002	9.4 U	9.4 U	**62**
Isophorone	50	9.4 U	9.4 U	19 U
N-Nitrosodi-n-propylamine	NS	9.4 U	9.4 U	19 U
N-Nitrosodimethylamine	NS	9.4 U	9.4 U	19 U
N-Nitrosodiphenylamine	50	9.4 U	9.4 U	19 U
Naphthalene	10	9.4 U	9.4 U	19 U
Nitrobenzene	0.4	9.4 U	9.4 U	19 U
Pentachlorophenol (PCP)	1	47 U	47 U	94 U
Phenanthrene	50	9.4 U	9.4 U	**52**
Phenol	1	9.4 U	9.4 U	19 U
Pyrene	50	9.4 U	9.4 U	**100**
Total SVOCs	NS	ND	ND	738

Notes:
1 - NYS Ambient Water Quality Standards/Guidance Values (AWQSGVs) for Class GA Waterbody
2 - Reported values represent the average value of sample and duplicate sample results.
All concentrations are reported in parts per billion (ppb or µg/L)
U - Compound not detected above the associated reporting limit
Bold - Concentration exceeds NYS Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards/Guidance Values - Class GA Waters
NS - No Standard; an AWQSGV has not been established for this parameter.

TABLE 4

TAL METALS ANALYTICAL RESULTS
OCTOBER 2017 MONITORING EVENT
FRANCZYK PARK SITE (B00174)
CITY OF BUFFALO, NEW YORK

TAL Metal	Class "GA" AWQSGVs[1]	Well ID, Sample ID, & Date Collected		
		MW-3[2]	MW-7	MW-8
		MW-3 Dissolved	MW-7	MW-8 Dissolved
		10/24/2017	10/24/2017	10/25/2017
Silver	50	10 U	10 U	10 U
Aluminum	NS	195,000	1,120	89,000
Arsenic	25	10 U	10 U	**347**
Barium	1,000	50	24	**1,970**
Beryllium	3	**12**	3.0 U	3.0
Calcium Metal	NS	426,500	392,000	916,000
Cadmium	5	**11.7**	5.0 U	5.0 U
Cobalt	NS	50 U	50 U	50 U
Chromium, total	50	17	10 U	**163**
Copper	200	20 U	20 U	**487**
Iron	300	**1,235,000**	**4,110**	**106,000**
Potassium	NS	131,000	18,700	89,300
Magnesium	35,000	**474,000**	**77,700**	**210,000**
Manganese	300	**17,850**	**2,950**	**2,020**
Sodium	20,000	**93,150**	**35,100**	**39,200**
Nickel	100	40 U	40 U	78
Lead	25	50 U	50 U	**12,900**
Antimony	3	60 U	60 U	60 U
Selenium	10	**24**	10 U	10 U
Thallium	0.5	100 U	100 U	**26**
Vanadium	NS	70	50 U	181
Zinc	2,000	245	20 U	1,440
Mercury	0.7	0.2 U	0.2 U	**8.14**

Notes:

1 - NYS Ambient Water Quality Standards/Guidance Values for Class GA Waterbody

2 - Reported values represent the average value of sample and duplicate sample results.

All concentrations are reported in parts per billion (ppb or µg/L)

U - Compound not detected above the associated reporting limit

Bold - Concentration exceeds NYS Technical and Operational Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards/Guidance Values - Class GA Waters

NS - No Standard; an AWQSGV has not been established for this parameter.

Appendix A
PRR Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **B00174**

Site Name Franczyk Park Investigation

Site Address: 550 and 564 New Babcock Street Zip Code: 14206-
City/Town: Buffalo (C)
County: Erie
Site Acreage: 15.5

Reporting Period: June 15, 2016 to September 15, 2017

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. B00174 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
112.17-1-10	City of Buffalo	Ground Water Use Restriction Landuse Restriction Site Management Plan
		Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan
		O&M Plan
112.17-1-11	City of Buffalo	O&M Plan Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
112.17-1-10	Cover System Cover System Groundwater Containment
112.17-1-11	Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. B00174

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jon Williams (print name) at 690 Delaware Avenue, Buffalo, NY 14209 (print business address),

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

12/20/2017
Date

IC/EC CERTIFICATIONS

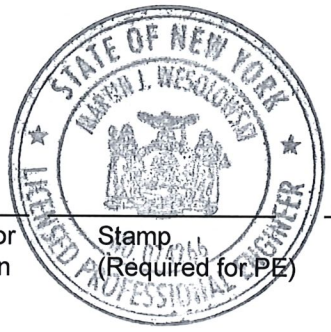
Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Martin Wesolowski at 690 Delaware Ave, Buffalo NY 14209,
print name print business address

am certifying as a Qualified Environmental Professional for the City of Buffalo
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

12/20/2017
Date

Appendix B
Site Inspection Form

SITE INSPECTION FORM
FRANCZYK PARK

Property Name: Franczyk Park Inspection Date:

Property Address: 564 Babcock Street

City: Buffalo State: NY Zip Code: 14206

Property ID: (Tax Assessment Map)

Section: 112.17 Block: 1 Lot(s): 10 and 11

Total Acreage: 16.5 acres

Weather (during inspection): Temperature: 65° Conditions: partly cloudy.

SIGNATURE:

The findings of this inspection were discussed with appropriate personnel, corrective actions were identified and implementation was mutually agreed upon:

Inspector: Jon Williams Date: 10/17/17

Next Scheduled Inspection Date: September 2018

COVER & VEGETATION

	Yes	No
4. Final cover in acceptable condition?	X	
Is there evidence of sloughing, erosion, ponding or settlement?		X
Is there evidence of unintended traffic; rutting?		X
Is there evidence of distressed vegetation/turf?	X	
Some vegetative stress in southern soccer field area. See attached sketch.		
5. Final cover sufficiently covers soil/fill material?	X	
Are there cracks visible in the soil or pavement?		X
Is there evidence of erosion in the stormwater channels or swales?		X
Is the synthetic erosion control fabric visible or damaged in the playground and/or athletic field area?		X

INTERCEPTOR TRENCH AND MONITORING WELLS

	Yes	No
6. Interceptor trench in acceptable condition?		
Are the cleanout caps secured and not buried?	X	
Are the interceptor pipes obstructed (check the manholes where the interceptor trench connects to the sanitary sewer)		X

What is the condition of the monitoring wells?

MW-3 missing j-plug, MW-7 good, MW-8 standing water in curb box. All wells difficult to find due to vegetation, MW-5 not located (1'd found) well presumed to be buried or destroyed.

ACTIVITY ON SITE

	Yes	No
7. Any activity on site that disturbed the soil cover?	____	X

ACCESS CONTROLS

	Yes	No
1. Is access controlled by barriers (i.e. fencing, boulders, etc?	X	____
Are there sections of the access controls damaged or missing?	____	X
2. Is there evidence of the operation of vehicles on the site?	____	X
Is there evidence of damage to the cover or access controls resulting from vehicle use on the project site?	____	X

ADDITIONAL FACILITY INFORMATION

Has there been any any development on or near the site? (Specify size and type: e.g., residential, 40 acres, well and septic)

COMMENTS

Item #

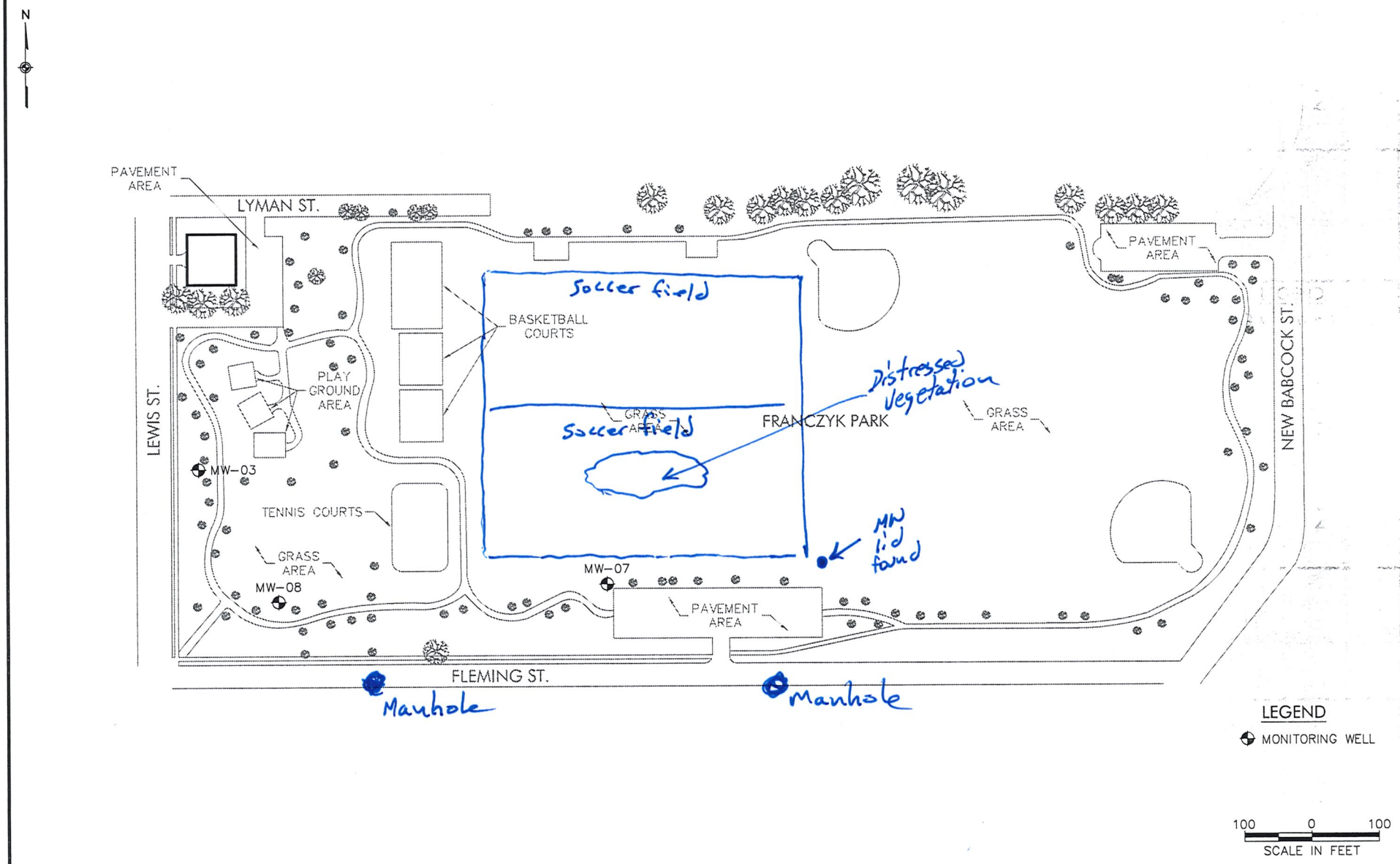
No development on or near the site

ATTACHMENTS

1. Site Sketch
2. Photographs
3. Laboratory Report(s)

V:\City of Buffalo\17-039-1144 - Environmental Services\Design\Franczyk Park\FRANCZYK PARK SITE PLAN.dwg 11/2/2017 11:18 AM

REV-1



LiRo Engineers, Inc.
690 Delaware Avenue
Buffalo, New York

FRANCZYK PARK SITE PLAN

Site Inspection 10/17 and 10/24, 2017

FIGURE NO. 2

Appendix C
Site Photographs

Site Photos

View of Site facing northwest.

View of Site facing southeast.

Site Photos

Distressed vegetative cover in southern soccer field.

Monitoring Well MW-3.

Site Photos

Monitoring Well MW-3 (water in curb box and missing j-plug).

Monitoring Well MW-5 lid.

Site Photos

Monitoring Well MW-5 location, no well found.

Monitoring Well MW-7.

Site Photos

Monitoring Well MW-8.

Monitoring Well MW-8 (water in curb box).

Appendix D
Monitoring Well Purge and Stabilization Logs

WELL PURGE LOG

LiRo Engineers, Inc.

Project Title: City of Buffalo - Franczyk Park

Well Number: **MW-3**

Site Name: Franczyk Park

Date: 10/24/17

Staff: Andrew Koons

A). Total casing and screen length in feet: 13.42

B). Water level below top of casing in feet: 5.23

C). Number of feet standing water [A-B]: 8.19

D). Volume of water/foot of casing (gal.): 0.17

E). Volume of water in casing (gal. [CxD]: 1.3923

F). Volume of water to remove (gal.) [Ex5]: 4.1769

G). Volume of water actually removed (gal.): 3.50

Well ID	Volume (gal/ft)
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PURGE DATA

Time	Temperature (˚C)	pH (SU)	ORP (mV)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Salinity	Appearance
13:11	14.14	4.11	115	10.100	>800	3.80	NR	turbid
13:14	14.01	4.09	122	9.750	>800	3.13	NR	turbid
13:20	13.94	4.01	120	10.300	>800	2.60	NR	turbid
13:23	14.07	4.12	115	8.910	>800	2.37	NR	turbid
13:26	14.18	4.19	111	8.040	>800	2.65	NR	turbid
13:29	14.10	4.19	115	7.990	574.0	2.80	NR	turbid

Comments: Sample MW-3 @ 13:30
Duplicate sample MW-D
Additional samples field filtered for TAL metals

42º 52' 49.0759" N
78º 49' 58.6074" W

WELL PURGE LOG

LiRo Engineers, Inc.

Project Title: City of Buffalo - Franczyk Park

Well Number: **MW-7**

Site Name: Franczyk Park

Date: 10/24/17

Staff: Andrew Koons

A). Total casing and screen length in feet: 7.85

B). Water level below top of casing in feet: 2.82

C). Number of feet standing water [A-B]: 5.03

D). Volume of water/foot of casing (gal.): 0.17

E). Volume of water in casing (gal. [CxD]: 0.8551

F). Volume of water to remove (gal.) [Ex5]: 2.5653

G). Volume of water actually removed (gal.): 3.00

Well ID	Volume (gal/ft)
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PURGE DATA

Time	Temperature (˚C)	pH (SU)	ORP (mV)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Salinity	Appearance
10:35	16.04	6.59	20	1.91	292.0	4.55	NR	clear
10:38	15.58	6.59	13	1.58	0.0	4.10	NR	clear
10:41	15.56	6.54	21	1.58	0.0	4.02	NR	clear
10:45	15.43	6.47	13	1.77	0.0	3.75	NR	clear
10:48	15.18	6.44	0	2.09	0.0	3.40	NR	clear
10:52	15.10	6.46	-16	2.58	8.2	4.09	NR	clear
10:57	15.11	6.45	-12	2.58	35.2	3.65	NR	slightly cloudy

Comments: Sample MW-7 @ 11:05

42º 52' 45.7094" N
78º 49' 53.6758" W

WELL PURGE LOG

LiRo Engineers, Inc.

Project Title: City of Buffalo - Franczyk Park

Well Number: **MW-8**

Site Name: Franczyk Park

Date: 10/24/17

Staff: Andrew Koons

A). Total casing and screen length in feet: 7.67

B). Water level below top of casing in feet: 5.16

C). Number of feet standing water [A-B]: 2.51

D). Volume of water/foot of casing (gal.): 0.17

E). Volume of water in casing (gal. [CxD]: 0.4267

F). Volume of water to remove (gal.) [Ex5]: 1.2801

G). Volume of water actually removed (gal.): 1.00

Well ID	Volume (gal/ft)
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PURGE DATA

Time	Temperature (˚C)	pH (SU)	ORP (mV)	Conductivity (ms/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Salinity	Appearance
12:21	17.00	6.81	-42	3.450	>800	4.50	NR	turbid
12:29	16.21	6.89	-64	3.980	653.0	4.29	NR	turbid
	Purged to dry, sample recovery on 10/25/17							

Comments: Sample MW-8 @ 9:00 on 10/25/17
Additional samples field filtered for TAL metals

42º 52' 47.1216" N
78º 49' 58.4237" W

Appendix E
Laboratory Analytical Reports
(Included on Attached CD)

November 15, 2017 Service Request No:R1710113

Mr. Jon Williams
The LiRo Group
690 Delaware Ave.
Buffalo, NY 14209

Laboratory Results for: City of Buffalo - Franczyk Park Site

Dear Mr.Williams,

Enclosed are the results of the sample(s) submitted to our laboratory October 25, 2017
For your reference, these analyses have been assigned our service request number **R1710113.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Lisa Reyes
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Road, Building 300, Suite 360
Rochester, NY 14623
T : +1 585 288 5380
F : +1 585 288 8475
www.alsglobal.com

Table of Contents

Table of Contents (continued)

Table of Contents (continued)

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

1565 Jefferson Rd, Building 300, Rochester, NY 14623 | 585-288-5380 | www.alsglobal.com

Client: The LiRo Group
Project: City of Buffalo - Franczyk Park Site/17-039-1144
Sample Matrix: Water

Service Request:R1710113
Date Received:10/25/17

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

Seven Water samples were received for analysis at ALS Environmental on 10/25/2017. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at ≤6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Semi-Volatile Organic Analyses:

Method 8270D, 10/30/17: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 10/30/17: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. Precision was also exceeded for one or more analytes. There were no detections of the analyte(s) in the associated field samples. The Laboratory Control Sample (LCS) and batch Matrix Spike/Matrix Spike Duplicate (MS/MSD) were within limits for all analytes. The analytes affected are flagged in the LCS Summary.

Metals Analyses:

Method 6010C, R1710113-001, 002, 003, 004, and 005: The Method Reporting Limit (MRL) was elevated due to matrix of sample.

Approved by _____ Date 11/15/2017

Sample Receipt Information

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: The LiRo Group **Service Request:**R1710113

Project: City of Buffalo - Franczyk Park Site/17-039-1144

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1710113-001	MW-7	10/24/2017	1105
R1710113-002	MW-3	10/24/2017	1330
R1710113-003	MW-3 Diss	10/24/2017	1330
R1710113-004	MW-D	10/24/2017	
R1710113-005	MW-D Diss	10/24/2017	
R1710113-006	MW-8	10/25/2017	0900
R1710113-007	MW-8 Diss	10/25/2017	0900

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

47760

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: City of Buffalo Franczyk Park Site	Project Number: 17-039-1144
Project Manager: Jon Williams	Report CC:
Company/Address: LiRo Engineers 690 Delaware Ave Buffalo, NY 14209	
Phone #: 716.882.5476	Email: williamsj@liro.com
Sampler's Signature: Andrew Koons	Sampler's Printed Name: Andrew Koons

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	PRESERVATIVE	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)								REMARKS/ ALTERNATE DESCRIPTION
							0					2	2								
MW-7		10/24	1105	H_2O	4		2					2									
MW-3		10/24	1330	H_2O	4		2					1	1								
MW-D		10/24	—	H_2O	4		2					1	1								
MW-8		10/25	0900	H_2O	4		2					1	1								

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED NY

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
Standard
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
ASP-B + NYSDEC EDD
Edata X Yes _____ No

INVOICE INFORMATION
PO #
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: Andrew Koons	Signature: Gary Bohan	Signature: Gary Bohan	Signature:	Signature:	
Printed Name: Andrew Koons	Printed Name: Gary Bohan	Printed Name: Gary Bohan	Printed Name: Daniel Ward	Printed Name:	
Firm: LiRo Engineers	Firm: ALS	Firm: ALS	Firm: ALS	Firm:	
Date/Time: 10/25/17 1105	Date/Time: 10/25/17 1105	Date/Time: 10/25/17 1235	Date/Time: 10/25/17 1235	Date/Time:	Date/Time:

R1710113 5
The LiRo Group
City of Buffalo - Franczyk Park Site

Distribution: White - Lab Copy; Yellow - Return to Originator

R1710113 The LiRo Group City of Buffalo - Franczyk Park Site 5

Cooler Receipt and Preservation Check Form

Project/Client LiRo Eng Folder Number________.

Cooler received on 10/25/17 by: DM COURIER: (ALS) UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)
2	**Custody papers** properly completed (ink, signed)?	(Y) N
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N
4	Circle: **(Wet Ice)** **Dry Ice** **Gel packs** present?	(Y) N

5a	**Perchlorate** samples have required headspace?	Y N (NA)
5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y N (NA)
6	Where did the bottles originate? (ALS/ROC) CLIENT	
7	Soil VOA received as: Bulk Encore 5035set (NA)	

8. Temperature Readings Date: 10/25/17 Time: 1300 ID: (IR#7) IR#9 From: Temp Blank (Sample Bottle)

Observed Temp (°C)	2.5 °C						
Correction Factor (°C)	±0.0						
Corrected Temp (°C)	2.5						
Temp from:Type of bottle							
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: __________ Ice melted Poorly Packed (described below) Same Day Rule

&Client Approval to Run Samples:________ Standing Approval Client aware at drop-off Client notified by: __________

All samples held in storage location: R002 by DM on 10/25/17 at 1300
5035 samples placed in storage location: ______ by ______ on ______ at ______

Cooler Breakdown: Date: 10/26/17 Time: 1029 by: [initials]

9.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
10.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
11.	Were correct containers used for the tests indicated?	(YES)	NO
12.	Were 5035 vials acceptable (no extra labels, not leaking)?	YES	NO (N/A)
13.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	213916	HNO_3	✓		1BDB26159E	9/18				
≤2		H_2SO_4								
<4		$NaHSO_4$								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
		$Na_2S_2O_3$	-	-						
		ZnAcetate	-	-						
		HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 060317-1pk 071017-2AMW
Explain all Discrepancies/ Other Comments:

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: [initials]
PC Secondary Review: [initials]

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r15.doc 10/11/17

Internal Chain of Custody Report

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R1710113-001.01					
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
R1710113-001.02					
	6010C,6010C				
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-A01 / DWARD	
		10/30/2017	1609	In Lab / KMCLAEN	
		10/31/2017	1130	R-A01 / KMCLAEN	
R1710113-001.03					
	7470A				
		10/26/2017	1030	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		11/2/2017	1040	In Lab / KMCLAEN	
		11/2/2017	1155	R-A01 / KMCLAEN	
R1710113-001.04					
	8270D				
		10/26/2017	1031	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		10/26/2017	1124	In Lab / DMURPHY	
R1710113-002.01					
	8270D				
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		10/26/2017	1124	In Lab / DMURPHY	
R1710113-002.02					
	6010C,6010C				
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-A01 / DWARD	
		10/30/2017	1609	In Lab / KMCLAEN	
		10/31/2017	1130	R-A01 / KMCLAEN	
R1710113-002.03					
	7470A				
		10/26/2017	1030	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		11/2/2017	1041	In Lab / KMCLAEN	
		11/2/2017	1155	R-A01 / KMCLAEN	
R1710113-002.04					

Client: The LiRo Group **Service Request:** R1710113

Project: City of Buffalo - Franczyk Park Site/17-039-1144

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		10/26/2017	1031	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
R1710113-003.01					
	6010C,6010C				
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-A01 / DWARD	
		10/30/2017	1609	In Lab / KMCLAEN	
		10/31/2017	1130	R-A01 / KMCLAEN	
R1710113-003.02					
	7470A				
		10/26/2017	1030	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		11/2/2017	1040	In Lab / KMCLAEN	
		11/2/2017	1155	R-A01 / KMCLAEN	
R1710113-004.01					
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
R1710113-004.02					
	6010C,6010C				
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-A01 / DWARD	
		10/30/2017	1609	In Lab / KMCLAEN	
		10/31/2017	1130	R-A01 / KMCLAEN	
R1710113-004.03					
	7470A				
		10/26/2017	1030	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		11/2/2017	1040	In Lab / KMCLAEN	
		11/2/2017	1155	R-A01 / KMCLAEN	
R1710113-004.04					
	8270D				
		10/26/2017	1031	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		10/26/2017	1124	In Lab / DMURPHY	
R1710113-005.01					
	6010C,6010C				
		10/26/2017	1029	SMO / DWARD	

Client: The LiRo Group **Service Request:** R1710113

Project: City of Buffalo - Franczyk Park Site/17-039-1144

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	6010C,6010C				
		10/26/2017	1031	R-A01 / DWARD	
		10/30/2017	1609	In Lab / KMCLAEN	
		10/31/2017	1130	R-A01 / KMCLAEN	
R1710113-005.02					
	7470A				
		10/26/2017	1030	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		11/2/2017	1040	In Lab / KMCLAEN	
		11/2/2017	1155	R-A01 / KMCLAEN	
R1710113-006.01					
	8270D				
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		10/26/2017	1124	In Lab / DMURPHY	
R1710113-006.02					
	6010C,6010C				
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-A01 / DWARD	
		10/30/2017	1609	In Lab / KMCLAEN	
		10/31/2017	1130	R-A01 / KMCLAEN	
R1710113-006.03					
	7470A				
		10/26/2017	1030	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		11/2/2017	1041	In Lab / KMCLAEN	
		11/2/2017	1155	R-A01 / KMCLAEN	
R1710113-006.04					
		10/26/2017	1031	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
R1710113-007.01					
	6010C,6010C				
		10/26/2017	1029	SMO / DWARD	
		10/26/2017	1031	R-A01 / DWARD	
		10/30/2017	1609	In Lab / KMCLAEN	
		10/31/2017	1130	R-A01 / KMCLAEN	
R1710113-007.02					

ALS Group USA, Corp.
dba ALS Environmental

Internal Chain of Custody Report

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	7470A				
		10/26/2017	1030	SMO / DWARD	
		10/26/2017	1031	R-002 / DWARD	
		11/2/2017	1040	In Lab / KMCLAEN	
		11/2/2017	1156	R-A01 / KMCLAEN	

Miscellaneous Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratoryôs NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Sample Name: MW-7 **Date Collected:** 10/24/17
Lab Code: R1710113-001 **Date Received:** 10/25/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7470A	KMCLAEN	KMCLAEN
8270D	DMURPHY	JMISIUREWICZ

Sample Name: MW-3 **Date Collected:** 10/24/17
Lab Code: R1710113-002 **Date Received:** 10/25/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7470A	KMCLAEN	KMCLAEN
8270D	DMURPHY	JMISIUREWICZ

Sample Name: MW-3 Diss **Date Collected:** 10/24/17
Lab Code: R1710113-003 **Date Received:** 10/25/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7470A	KMCLAEN	KMCLAEN

Sample Name: MW-D **Date Collected:** 10/24/17
Lab Code: R1710113-004 **Date Received:** 10/25/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7470A	KMCLAEN	KMCLAEN
8270D	DMURPHY	JMISIUREWICZ

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Sample Name: MW-D Diss **Date Collected:** 10/24/17
Lab Code: R1710113-005 **Date Received:** 10/25/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7470A	KMCLAEN	KMCLAEN

Sample Name: MW-8 **Date Collected:** 10/25/17
Lab Code: R1710113-006 **Date Received:** 10/25/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7470A	KMCLAEN	KMCLAEN
8270D	DMURPHY	JMISIUREWICZ

Sample Name: MW-8 Diss **Date Collected:** 10/25/17
Lab Code: R1710113-007 **Date Received:** 10/25/17
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
6010C	KMCLAEN	NMANSEN
7470A	KMCLAEN	KMCLAEN

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17 11:05
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-7	**Units:**	ug/L
Lab Code:	R1710113-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
1,2-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
1,3-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
1,4-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4,5-Trichlorophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4,6-Trichlorophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4-Dichlorophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4-Dimethylphenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4-Dinitrophenol	47 U	47	1	10/30/17 16:09	10/26/17	
2,4-Dinitrotoluene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,6-Dinitrotoluene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Chloronaphthalene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Chlorophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Methylnaphthalene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Methylphenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Nitroaniline	47 U	47	1	10/30/17 16:09	10/26/17	
2-Nitrophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
3,3'-Dichlorobenzidine	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
3- and 4-Methylphenol Coelution	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
3-Nitroaniline	47 U	47	1	10/30/17 16:09	10/26/17	
4,6-Dinitro-2-methylphenol	47 U	47	1	10/30/17 16:09	10/26/17	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
4-Chloro-3-methylphenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
4-Chloroaniline	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
4-Nitroaniline	47 U	47	1	10/30/17 16:09	10/26/17	
4-Nitrophenol	47 U	47	1	10/30/17 16:09	10/26/17	
Acenaphthene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Acenaphthylene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Anthracene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benz(a)anthracene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzo(a)pyrene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzo(b)fluoranthene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzo(g,h,i)perylene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzo(k)fluoranthene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzyl Alcohol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Bis(2-chloroethoxy)methane	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Butyl Benzyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Carbazole	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Chrysene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17 11:05
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-7	**Units:**	ug/L
Lab Code:	R1710113-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Di-n-octyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Dibenz(a,h)anthracene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Dibenzofuran	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Diethyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Dimethyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Fluoranthene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Fluorene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Hexachlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Hexachlorobutadiene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Hexachlorocyclopentadiene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Hexachloroethane	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Isophorone	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
N-Nitrosodimethylamine	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
N-Nitrosodiphenylamine	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Naphthalene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Nitrobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Pentachlorophenol (PCP)	47 U	47	1	10/30/17 16:09	10/26/17	
Phenanthrene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Phenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Pyrene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	10/30/17 16:09	
2-Fluorobiphenyl	72	31 - 118	10/30/17 16:09	
2-Fluorophenol	37	10 - 105	10/30/17 16:09	
Nitrobenzene-d5	72	31 - 110	10/30/17 16:09	
Phenol-d6	25	10 - 107	10/30/17 16:09	
p-Terphenyl-d14	77	30 - 133	10/30/17 16:09	

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17 13:30
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R1710113-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
1,2-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
1,3-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
1,4-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4,5-Trichlorophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4,6-Trichlorophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4-Dichlorophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4-Dimethylphenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4-Dinitrophenol	47 U	47	1	10/30/17 16:37	10/26/17	
2,4-Dinitrotoluene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,6-Dinitrotoluene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Chloronaphthalene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Chlorophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Methylnaphthalene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Methylphenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Nitroaniline	47 U	47	1	10/30/17 16:37	10/26/17	
2-Nitrophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
3,3'-Dichlorobenzidine	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
3- and 4-Methylphenol Coelution	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
3-Nitroaniline	47 U	47	1	10/30/17 16:37	10/26/17	
4,6-Dinitro-2-methylphenol	47 U	47	1	10/30/17 16:37	10/26/17	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
4-Chloro-3-methylphenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
4-Chloroaniline	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
4-Nitroaniline	47 U	47	1	10/30/17 16:37	10/26/17	
4-Nitrophenol	47 U	47	1	10/30/17 16:37	10/26/17	
Acenaphthene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Acenaphthylene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Anthracene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benz(a)anthracene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzo(a)pyrene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzo(b)fluoranthene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzo(g,h,i)perylene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzo(k)fluoranthene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzyl Alcohol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Bis(2-chloroethoxy)methane	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Butyl Benzyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Carbazole	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Chrysene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17 13:30
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R1710113-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Di-n-octyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Dibenz(a,h)anthracene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Dibenzofuran	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Diethyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Dimethyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Fluoranthene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Fluorene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Hexachlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Hexachlorobutadiene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Hexachlorocyclopentadiene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Hexachloroethane	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Isophorone	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
N-Nitrosodimethylamine	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
N-Nitrosodiphenylamine	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Naphthalene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Nitrobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Pentachlorophenol (PCP)	47 U	47	1	10/30/17 16:37	10/26/17	
Phenanthrene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Phenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Pyrene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	48	35 - 141	10/30/17 16:37	
2-Fluorobiphenyl	43	31 - 118	10/30/17 16:37	
2-Fluorophenol	22	10 - 105	10/30/17 16:37	
Nitrobenzene-d5	44	31 - 110	10/30/17 16:37	
Phenol-d6	14	10 - 107	10/30/17 16:37	
p-Terphenyl-d14	47	30 - 133	10/30/17 16:37	

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-D	**Units:**	ug/L
Lab Code:	R1710113-004	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
1,2-Dichlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
1,3-Dichlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
1,4-Dichlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4,5-Trichlorophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4,6-Trichlorophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4-Dichlorophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4-Dimethylphenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4-Dinitrophenol	47 U	47	1	10/30/17 17:05	10/26/17	
2,4-Dinitrotoluene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,6-Dinitrotoluene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Chloronaphthalene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Chlorophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Methylnaphthalene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Methylphenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Nitroaniline	47 U	47	1	10/30/17 17:05	10/26/17	
2-Nitrophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
3,3'-Dichlorobenzidine	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
3- and 4-Methylphenol Coelution	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
3-Nitroaniline	47 U	47	1	10/30/17 17:05	10/26/17	
4,6-Dinitro-2-methylphenol	47 U	47	1	10/30/17 17:05	10/26/17	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
4-Chloro-3-methylphenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
4-Chloroaniline	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
4-Nitroaniline	47 U	47	1	10/30/17 17:05	10/26/17	
4-Nitrophenol	47 U	47	1	10/30/17 17:05	10/26/17	
Acenaphthene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Acenaphthylene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Anthracene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benz(a)anthracene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzo(a)pyrene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzo(b)fluoranthene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzo(g,h,i)perylene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzo(k)fluoranthene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzyl Alcohol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Bis(2-chloroethoxy)methane	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Butyl Benzyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Carbazole	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Chrysene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-D	**Units:**	ug/L
Lab Code:	R1710113-004	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Di-n-octyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Dibenz(a,h)anthracene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Dibenzofuran	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Diethyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Dimethyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Fluoranthene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Fluorene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Hexachlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Hexachlorobutadiene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Hexachlorocyclopentadiene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Hexachloroethane	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Isophorone	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
N-Nitrosodimethylamine	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
N-Nitrosodiphenylamine	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Naphthalene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Nitrobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Pentachlorophenol (PCP)	47 U	47	1	10/30/17 17:05	10/26/17	
Phenanthrene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Phenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Pyrene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	77	35 - 141	10/30/17 17:05	
2-Fluorobiphenyl	71	31 - 118	10/30/17 17:05	
2-Fluorophenol	39	10 - 105	10/30/17 17:05	
Nitrobenzene-d5	71	31 - 110	10/30/17 17:05	
Phenol-d6	27	10 - 107	10/30/17 17:05	
p-Terphenyl-d14	71	30 - 133	10/30/17 17:05	

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/25/17 09:00
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-8	**Units:**	ug/L
Lab Code:	R1710113-006	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
1,2-Dichlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
1,3-Dichlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
1,4-Dichlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
2,4,5-Trichlorophenol	19 U	19	2	10/31/17 17:13	10/26/17	
2,4,6-Trichlorophenol	19 U	19	2	10/31/17 17:13	10/26/17	
2,4-Dichlorophenol	19 U	19	2	10/31/17 17:13	10/26/17	
2,4-Dimethylphenol	19 U	19	2	10/31/17 17:13	10/26/17	
2,4-Dinitrophenol	94 U	94	2	10/31/17 17:13	10/26/17	
2,4-Dinitrotoluene	19 U	19	2	10/31/17 17:13	10/26/17	
2,6-Dinitrotoluene	19 U	19	2	10/31/17 17:13	10/26/17	
2-Chloronaphthalene	19 U	19	2	10/31/17 17:13	10/26/17	
2-Chlorophenol	19 U	19	2	10/31/17 17:13	10/26/17	
2-Methylnaphthalene	19 U	19	2	10/31/17 17:13	10/26/17	
2-Methylphenol	19 U	19	2	10/31/17 17:13	10/26/17	
2-Nitroaniline	94 U	94	2	10/31/17 17:13	10/26/17	
2-Nitrophenol	19 U	19	2	10/31/17 17:13	10/26/17	
3,3'-Dichlorobenzidine	19 U	19	2	10/31/17 17:13	10/26/17	
3- and 4-Methylphenol Coelution	19 U	19	2	10/31/17 17:13	10/26/17	
3-Nitroaniline	94 U	94	2	10/31/17 17:13	10/26/17	
4,6-Dinitro-2-methylphenol	94 U	94	2	10/31/17 17:13	10/26/17	
4-Bromophenyl Phenyl Ether	19 U	19	2	10/31/17 17:13	10/26/17	
4-Chloro-3-methylphenol	19 U	19	2	10/31/17 17:13	10/26/17	
4-Chloroaniline	19 U	19	2	10/31/17 17:13	10/26/17	
4-Chlorophenyl Phenyl Ether	19 U	19	2	10/31/17 17:13	10/26/17	
4-Nitroaniline	94 U	94	2	10/31/17 17:13	10/26/17	
4-Nitrophenol	94 U	94	2	10/31/17 17:13	10/26/17	
Acenaphthene	19 U	19	2	10/31/17 17:13	10/26/17	
Acenaphthylene	19 U	19	2	10/31/17 17:13	10/26/17	
Anthracene	19 U	19	2	10/31/17 17:13	10/26/17	
Benz(a)anthracene	**60**	19	2	10/31/17 17:13	10/26/17	
Benzo(a)pyrene	**80**	19	2	10/31/17 17:13	10/26/17	
Benzo(b)fluoranthene	**97**	19	2	10/31/17 17:13	10/26/17	
Benzo(g,h,i)perylene	**66**	19	2	10/31/17 17:13	10/26/17	
Benzo(k)fluoranthene	**36**	19	2	10/31/17 17:13	10/26/17	
Benzyl Alcohol	19 U	19	2	10/31/17 17:13	10/26/17	
2,2'-Oxybis(1-chloropropane)	19 U	19	2	10/31/17 17:13	10/26/17	
Bis(2-chloroethoxy)methane	19 U	19	2	10/31/17 17:13	10/26/17	
Bis(2-chloroethyl) Ether	19 U	19	2	10/31/17 17:13	10/26/17	
Bis(2-ethylhexyl) Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Butyl Benzyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Carbazole	19 U	19	2	10/31/17 17:13	10/26/17	
Chrysene	**65**	19	2	10/31/17 17:13	10/26/17	

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/25/17 09:00
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-8	**Units:**	ug/L
Lab Code:	R1710113-006	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Di-n-octyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Dibenz(a,h)anthracene	19 U	19	2	10/31/17 17:13	10/26/17	
Dibenzofuran	19 U	19	2	10/31/17 17:13	10/26/17	
Diethyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Dimethyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Fluoranthene	**120**	19	2	10/31/17 17:13	10/26/17	
Fluorene	19 U	19	2	10/31/17 17:13	10/26/17	
Hexachlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
Hexachlorobutadiene	19 U	19	2	10/31/17 17:13	10/26/17	
Hexachlorocyclopentadiene	19 U	19	2	10/31/17 17:13	10/26/17	
Hexachloroethane	19 U	19	2	10/31/17 17:13	10/26/17	
Indeno(1,2,3-cd)pyrene	**62**	19	2	10/31/17 17:13	10/26/17	
Isophorone	19 U	19	2	10/31/17 17:13	10/26/17	
N-Nitrosodi-n-propylamine	19 U	19	2	10/31/17 17:13	10/26/17	
N-Nitrosodimethylamine	19 U	19	2	10/31/17 17:13	10/26/17	
N-Nitrosodiphenylamine	19 U	19	2	10/31/17 17:13	10/26/17	
Naphthalene	19 U	19	2	10/31/17 17:13	10/26/17	
Nitrobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
Pentachlorophenol (PCP)	94 U	94	2	10/31/17 17:13	10/26/17	
Phenanthrene	**52**	19	2	10/31/17 17:13	10/26/17	
Phenol	19 U	19	2	10/31/17 17:13	10/26/17	
Pyrene	**100**	19	2	10/31/17 17:13	10/26/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	72	35 - 141	10/31/17 17:13	
2-Fluorobiphenyl	60	31 - 118	10/31/17 17:13	
2-Fluorophenol	41	10 - 105	10/31/17 17:13	
Nitrobenzene-d5	75	31 - 110	10/31/17 17:13	
Phenol-d6	28	10 - 107	10/31/17 17:13	
p-Terphenyl-d14	45	30 - 133	10/31/17 17:13	

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-7

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-001

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1120			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	23.5			P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	392000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	4110			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	77700			P
7439-96-5	Manganese	2950			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	18700			P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	35100			P
7440-28-0	Thallium	100	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-002

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	214000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	70.5			P
7440-41-7	Beryllium	12.8			P
7440-43-9	Cadmium	12.4			P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	414000			P
7440-47-3	Chromium	23.4			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	1280000			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	478000			P
7439-96-5	Manganese	18400			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	131000			P
7782-49-2	Selenium	20.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	93100			P
7440-28-0	Thallium	100	U		P
7440-62-2	Vanadium	80.5			P
7440-66-6	Zinc	294			P

Color Before: YELLOW Clarity Before: CLOUDY Texture: _____

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-3 Diss

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-003

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	225000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	24.7			P
7440-41-7	Beryllium	14.3			P
7440-43-9	Cadmium	14.5			P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	437000			P
7440-47-3	Chromium	13.5			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	1480000			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	631000			P
7439-96-5	Manganese	21100			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	143000			P
7782-49-2	Selenium	31.3			P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	101000			P
7440-28-0	Thallium	100	U		P
7440-62-2	Vanadium	68.6			P
7440-66-6	Zinc	211			P

Color Before: YELLOW Clarity Before: CLOUDY Texture: _____

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-D

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-004

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	217000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	75.7			P
7440-41-7	Beryllium	12.9			P
7440-43-9	Cadmium	12.5			P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	415000			P
7440-47-3	Chromium	24.3			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	1260000			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	481000			P
7439-96-5	Manganese	18300			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	133000			P
7782-49-2	Selenium	28.7			P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	92500			P
7440-28-0	Thallium	100	U		P
7440-62-2	Vanadium	81.9			P
7440-66-6	Zinc	306			P

Color Before: YELLOW Clarity Before: CLOUDY Texture: _____

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-D Diss

Contract: R1710113

Lab Code: Case No.: SAS No.: SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-005

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	176000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	28.9			P
7440-41-7	Beryllium	11.2			P
7440-43-9	Cadmium	11.0			P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	439000			P
7440-47-3	Chromium	11.3			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	1190000			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	470000			P
7439-96-5	Manganese	17300			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	131000			P
7782-49-2	Selenium	18.6			P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	93200			P
7440-28-0	Thallium	20.0	U		P
7440-62-2	Vanadium	58.5			P
7440-66-6	Zinc	195			P

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-8

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-006

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200000			P
7440-36-0	Antimony	68.5			P
7440-38-2	Arsenic	581			P
7440-39-3	Barium	4220			P
7440-41-7	Beryllium	6.9			P
7440-43-9	Cadmium	7.9			P
7439-97-6	Mercury	14.5			CV
7440-70-2	Calcium	1140000			P
7440-47-3	Chromium	375			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	1080			P
7439-89-6	Iron	229000			P
7439-92-1	Lead	27400			P
7439-95-4	Magnesium	227000			P
7439-96-5	Manganese	3490			P
7440-02-0	Nickel	177			P
7440-09-7	Potassium	118000			P
7782-49-2	Selenium	27.2			P
7440-22-4	Silver	14.4			P
7440-23-5	Sodium	39100			P
7440-28-0	Thallium	38.8			P
7440-62-2	Vanadium	405			P
7440-66-6	Zinc	3150			P

Color Before: BROWN Clarity Before: CLOUDY Texture: _____

Color After: BROWN Clarity After: CLOUDY Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-8 Diss

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-007

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	89000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	347			P
7440-39-3	Barium	1970			P
7440-41-7	Beryllium	3.0			P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	8.1			CV
7440-70-2	Calcium	916000			P
7440-47-3	Chromium	163			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	487			P
7439-89-6	Iron	106000			P
7439-92-1	Lead	12900			P
7439-95-4	Magnesium	210000			P
7439-96-5	Manganese	2020			P
7440-02-0	Nickel	77.6			P
7440-09-7	Potassium	89300			P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	39200			P
7440-28-0	Thallium	26.0			P
7440-62-2	Vanadium	181			P
7440-66-6	Zinc	1440			P

Color Before: BROWN Clarity Before: CLOUDY Texture: _____

Color After: BROWN Clarity After: CLOUDY Artifacts: _____

Comments: _____

QC Summary Forms

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol 35 - 141	2-Fluorobiphenyl 31 - 118	2-Fluorophenol 10 - 105
MW-7	R1710113-001	75	72	37
MW-3	R1710113-002	48	43	22
MW-D	R1710113-004	77	71	39
MW-8	R1710113-006	72	60	41
Method Blank	RQ1711100-01	71	69	41
Lab Control Sample	RQ1711100-02	20 *	76	11
Duplicate Lab Control Sample	RQ1711100-03	83	80	48

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144
Sample Matrix: Water

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5 31 - 110	Phenol-d6 10 - 107	p-Terphenyl-d14 30 - 133
MW-7	R1710113-001	72	25	77
MW-3	R1710113-002	44	14	47
MW-D	R1710113-004	71	27	71
MW-8	R1710113-006	75	28	45
Method Blank	RQ1711100-01	72	28	79
Lab Control Sample	RQ1711100-02	77	15	81
Duplicate Lab Control Sample	RQ1711100-03	85	35	86

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Analyzed:**	10/30/17 10:58
Sample Matrix:	Water	**Date Extracted:**	10/26/17

Method Blank Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-54
Lab Code:	RQ1711100-01	**File ID:**	I:\ACQUDATA\5973D\Data\103017\BM241.D\
Analysis Method:	8270D	**Analysis Lot:**	567960
Prep Method:	EPA 3510C	**Extraction Lot:**	301663

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1711100-02	I:\ACQUDATA\5973D\Data\103017\BM242.D\	10/30/17 11:26
Duplicate Lab Control Sample	RQ1711100-03	I:\ACQUDATA\5973D\Data\103017\BM243.D\	10/30/17 11:55
MW-7	R1710113-001	I:\ACQUDATA\5973D\Data\103017\BM252.D\	10/30/17 16:09
MW-3	R1710113-002	I:\ACQUDATA\5973D\Data\103017\BM253.D\	10/30/17 16:37
MW-D	R1710113-004	I:\ACQUDATA\5973D\Data\103017\BM254.D\	10/30/17 17:05
MW-8	R1710113-006	I:\ACQUDATA\5973D\Data\103117\BM290.D\	10/31/17 17:13

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1711100-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	10 U	10	1	10/30/17 10:58	10/26/17	
1,2-Dichlorobenzene	10 U	10	1	10/30/17 10:58	10/26/17	
1,3-Dichlorobenzene	10 U	10	1	10/30/17 10:58	10/26/17	
1,4-Dichlorobenzene	10 U	10	1	10/30/17 10:58	10/26/17	
2,4,5-Trichlorophenol	10 U	10	1	10/30/17 10:58	10/26/17	
2,4,6-Trichlorophenol	10 U	10	1	10/30/17 10:58	10/26/17	
2,4-Dichlorophenol	10 U	10	1	10/30/17 10:58	10/26/17	
2,4-Dimethylphenol	10 U	10	1	10/30/17 10:58	10/26/17	
2,4-Dinitrophenol	50 U	50	1	10/30/17 10:58	10/26/17	
2,4-Dinitrotoluene	10 U	10	1	10/30/17 10:58	10/26/17	
2,6-Dinitrotoluene	10 U	10	1	10/30/17 10:58	10/26/17	
2-Chloronaphthalene	10 U	10	1	10/30/17 10:58	10/26/17	
2-Chlorophenol	10 U	10	1	10/30/17 10:58	10/26/17	
2-Methylnaphthalene	10 U	10	1	10/30/17 10:58	10/26/17	
2-Methylphenol	10 U	10	1	10/30/17 10:58	10/26/17	
2-Nitroaniline	50 U	50	1	10/30/17 10:58	10/26/17	
2-Nitrophenol	10 U	10	1	10/30/17 10:58	10/26/17	
3,3'-Dichlorobenzidine	10 U	10	1	10/30/17 10:58	10/26/17	
3- and 4-Methylphenol Coelution	10 U	10	1	10/30/17 10:58	10/26/17	
3-Nitroaniline	50 U	50	1	10/30/17 10:58	10/26/17	
4,6-Dinitro-2-methylphenol	50 U	50	1	10/30/17 10:58	10/26/17	
4-Bromophenyl Phenyl Ether	10 U	10	1	10/30/17 10:58	10/26/17	
4-Chloro-3-methylphenol	10 U	10	1	10/30/17 10:58	10/26/17	
4-Chloroaniline	10 U	10	1	10/30/17 10:58	10/26/17	
4-Chlorophenyl Phenyl Ether	10 U	10	1	10/30/17 10:58	10/26/17	
4-Nitroaniline	50 U	50	1	10/30/17 10:58	10/26/17	
4-Nitrophenol	50 U	50	1	10/30/17 10:58	10/26/17	
Acenaphthene	10 U	10	1	10/30/17 10:58	10/26/17	
Acenaphthylene	10 U	10	1	10/30/17 10:58	10/26/17	
Anthracene	10 U	10	1	10/30/17 10:58	10/26/17	
Benz(a)anthracene	10 U	10	1	10/30/17 10:58	10/26/17	
Benzo(a)pyrene	10 U	10	1	10/30/17 10:58	10/26/17	
Benzo(b)fluoranthene	10 U	10	1	10/30/17 10:58	10/26/17	
Benzo(g,h,i)perylene	10 U	10	1	10/30/17 10:58	10/26/17	
Benzo(k)fluoranthene	10 U	10	1	10/30/17 10:58	10/26/17	
Benzyl Alcohol	10 U	10	1	10/30/17 10:58	10/26/17	
2,2'-Oxybis(1-chloropropane)	10 U	10	1	10/30/17 10:58	10/26/17	
Bis(2-chloroethoxy)methane	10 U	10	1	10/30/17 10:58	10/26/17	
Bis(2-chloroethyl) Ether	10 U	10	1	10/30/17 10:58	10/26/17	
Bis(2-ethylhexyl) Phthalate	10 U	10	1	10/30/17 10:58	10/26/17	
Butyl Benzyl Phthalate	10 U	10	1	10/30/17 10:58	10/26/17	
Carbazole	10 U	10	1	10/30/17 10:58	10/26/17	
Chrysene	10 U	10	1	10/30/17 10:58	10/26/17	

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	RQ1711100-01	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	10 U	10	1	10/30/17 10:58	10/26/17	
Di-n-octyl Phthalate	10 U	10	1	10/30/17 10:58	10/26/17	
Dibenz(a,h)anthracene	10 U	10	1	10/30/17 10:58	10/26/17	
Dibenzofuran	10 U	10	1	10/30/17 10:58	10/26/17	
Diethyl Phthalate	10 U	10	1	10/30/17 10:58	10/26/17	
Dimethyl Phthalate	10 U	10	1	10/30/17 10:58	10/26/17	
Fluoranthene	10 U	10	1	10/30/17 10:58	10/26/17	
Fluorene	10 U	10	1	10/30/17 10:58	10/26/17	
Hexachlorobenzene	10 U	10	1	10/30/17 10:58	10/26/17	
Hexachlorobutadiene	10 U	10	1	10/30/17 10:58	10/26/17	
Hexachlorocyclopentadiene	10 U	10	1	10/30/17 10:58	10/26/17	
Hexachloroethane	10 U	10	1	10/30/17 10:58	10/26/17	
Indeno(1,2,3-cd)pyrene	10 U	10	1	10/30/17 10:58	10/26/17	
Isophorone	10 U	10	1	10/30/17 10:58	10/26/17	
N-Nitrosodi-n-propylamine	10 U	10	1	10/30/17 10:58	10/26/17	
N-Nitrosodimethylamine	10 U	10	1	10/30/17 10:58	10/26/17	
N-Nitrosodiphenylamine	10 U	10	1	10/30/17 10:58	10/26/17	
Naphthalene	10 U	10	1	10/30/17 10:58	10/26/17	
Nitrobenzene	10 U	10	1	10/30/17 10:58	10/26/17	
Pentachlorophenol (PCP)	50 U	50	1	10/30/17 10:58	10/26/17	
Phenanthrene	10 U	10	1	10/30/17 10:58	10/26/17	
Phenol	10 U	10	1	10/30/17 10:58	10/26/17	
Pyrene	10 U	10	1	10/30/17 10:58	10/26/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	71	35 - 141	10/30/17 10:58	
2-Fluorobiphenyl	69	31 - 118	10/30/17 10:58	
2-Fluorophenol	41	10 - 105	10/30/17 10:58	
Nitrobenzene-d5	72	31 - 110	10/30/17 10:58	
Phenol-d6	28	10 - 107	10/30/17 10:58	
p-Terphenyl-d14	79	30 - 133	10/30/17 10:58	

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Analyzed:**	10/30/17 11:26
Sample Matrix:	Water	**Date Extracted:**	10/26/17

Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Sample Name:	Lab Control Sample	**Instrument ID:**	R-MS-54
Lab Code:	RQ1711100-02	**File ID:**	I:\ACQUDATA\5973D\Data\103017\BM242.D\
Analysis Method:	8270D	**Analysis Lot:**	567960
Prep Method:	EPA 3510C	**Extraction Lot:**	301663

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	RQ1711100-01	I:\ACQUDATA\5973D\Data\103017\BM241.D\	10/30/17 10:58
Duplicate Lab Control Sample	RQ1711100-03	I:\ACQUDATA\5973D\Data\103017\BM243.D\	10/30/17 11:55
MW-7	R1710113-001	I:\ACQUDATA\5973D\Data\103017\BM252.D\	10/30/17 16:09
MW-3	R1710113-002	I:\ACQUDATA\5973D\Data\103017\BM253.D\	10/30/17 16:37
MW-D	R1710113-004	I:\ACQUDATA\5973D\Data\103017\BM254.D\	10/30/17 17:05
MW-8	R1710113-006	I:\ACQUDATA\5973D\Data\103117\BM290.D\	10/31/17 17:13

Client: The LiRo Group
Project: City of Buffalo - Franczyk Park Site/17-039-1144
Sample Matrix: Water

Service Request: R1710113
Date Analyzed: 10/30/17

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1711100-02			RQ1711100-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
1,2,4-Trichlorobenzene	8270D	57.1	100	57	65.1	100	65	10-127	13	30
1,2-Dichlorobenzene	8270D	57.8	100	58	63.8	100	64	23-130	10	30
1,3-Dichlorobenzene	8270D	54.2	100	54	60.7	100	61	21-90	12	30
1,4-Dichlorobenzene	8270D	56.7	100	57	64.3	100	64	10-124	12	30
2,4,5-Trichlorophenol	8270D	21.6	100	22 *	89.2	100	89	63-121	121*	30
2,4,6-Trichlorophenol	8270D	18.7	100	19 *	84.5	100	85	64-116	127*	30
2,4-Dichlorophenol	8270D	26.3	100	26 *	85.1	100	85	52-111	106*	30
2,4-Dimethylphenol	8270D	78.4	100	78	89.4	100	89	44-114	13	30
2,4-Dinitrophenol	8270D	8.85 J	100	9 *	48.2 J	100	48	10-160	137*	30
2,4-Dinitrotoluene	8270D	71.1	100	71	76.7	100	77	62-142	8	30
2,6-Dinitrotoluene	8270D	70.5	100	71	74.4	100	74	61-139	4	30
2-Chloronaphthalene	8270D	67.3	100	67	72.5	100	73	53-98	9	30
2-Chlorophenol	8270D	24.5	100	24 *	76.7	100	77	42-112	105*	30
2-Methylnaphthalene	8270D	64.1	100	64	70.6	100	71	34-102	10	30
2-Methylphenol	8270D	59.0	100	59	76.5	100	76	59-104	25	30
2-Nitroaniline	8270D	78.0	100	78	87.4	100	87	52-133	11	30
2-Nitrophenol	8270D	21.7	100	22 *	88.6	100	89	51-115	121*	30
3,3'-Dichlorobenzidine	8270D	80.7	100	81	81.6	100	82	45-122	1	30
3- and 4-Methylphenol Coelution	8270D	46.8	100	47 *	65.8	100	66	50-111	34*	30
3-Nitroaniline	8270D	71.4	100	71	76.8	100	77	48-115	8	30
4,6-Dinitro-2-methylphenol	8270D	15.2 J	100	15 *	75.5	100	76	35-168	134*	30
4-Bromophenyl Phenyl Ether	8270D	63.0	100	63 *	67.4	100	67	65-113	6	30
4-Chloro-3-methylphenol	8270D	62.6	100	63	91.5	100	91	52-113	36*	30
4-Chloroaniline	8270D	67.4	100	67	74.6	100	75	47-104	11	30
4-Chlorophenyl Phenyl Ether	8270D	64.1	100	64	69.3	100	69	61-110	8	30
4-Nitroaniline	8270D	81.5	100	82	85.4	100	85	54-133	4	30
4-Nitrophenol	8270D	5.83 J	100	6 *	35.3 J	100	35	10-126	141*	30
Acenaphthene	8270D	72.4	100	72	79.2	100	79	54-125	9	30
Acenaphthylene	8270D	76.4	100	76	82.1	100	82	60-106	8	30
Anthracene	8270D	82.5	100	83	90.3	100	90	55-116	8	30
Benz(a)anthracene	8270D	81.7	100	82	87.6	100	88	66-110	7	30
Benzo(a)pyrene	8270D	86.1	100	86	93.0	100	93	44-114	8	30
Benzo(b)fluoranthene	8270D	80.9	100	81	87.3	100	87	69-117	7	30

Client: The LiRo Group
Project: City of Buffalo - Franczyk Park Site/17-039-1144
Sample Matrix: Water

Service Request: R1710113
Date Analyzed: 10/30/17

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

		Lab Control Sample			Duplicate Lab Control Sample					
		RQ1711100-02			RQ1711100-03					
Analyte Name	**Analytical Method**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Benzo(g,h,i)perylene	8270D	96.5	100	96	103	100	103	63-136	7	30
Benzo(k)fluoranthene	8270D	83.8	100	84	90.7	100	91	49-133	8	30
Benzyl Alcohol	8270D	64.4	100	64	69.4	100	69	31-109	8	30
2,2'-Oxybis(1-chloropropane)	8270D	65.4	100	65	71.8	100	72	47-132	10	30
Bis(2-chloroethoxy)methane	8270D	73.9	100	74	82.2	100	82	55-110	10	30
Bis(2-chloroethyl) Ether	8270D	65.9	100	66	72.0	100	72	56-102	9	30
Bis(2-ethylhexyl) Phthalate	8270D	80.2	100	80	87.9	100	88	70-132	10	30
Butyl Benzyl Phthalate	8270D	83.1	100	83	88.9	100	89	41-148	7	30
Carbazole	8270D	87.9	100	88	93.9	100	94	61-126	7	30
Chrysene	8270D	82.0	100	82	87.6	100	88	57-118	7	30
Di-n-butyl Phthalate	8270D	81.4	100	81	87.6	100	88	57-139	8	30
Di-n-octyl Phthalate	8270D	86.7	100	87	97.9	100	98	70-134	12	30
Dibenz(a,h)anthracene	8270D	63.9	100	64	68.0	100	68	58-132	6	30
Dibenzofuran	8270D	74.8	100	75	82.4	100	82	62-105	9	30
Diethyl Phthalate	8270D	69.3	100	69	75.8	100	76	65-122	10	30
Dimethyl Phthalate	8270D	71.4	100	71	76.0	100	76	58-119	7	30
Fluoranthene	8270D	86.1	100	86	93.2	100	93	66-127	8	30
Fluorene	8270D	72.5	100	73	78.1	100	78	66-110	7	30
Hexachlorobenzene	8270D	75.6	100	76	81.8	100	82	68-115	8	30
Hexachlorobutadiene	8270D	57.4	100	57	65.5	100	66	16-95	15	30
Hexachlorocyclopentadiene	8270D	47.6	100	48	54.1	100	54	10-99	12	30
Hexachloroethane	8270D	52.1	100	52	56.9	100	57	15-92	9	30
Indeno(1,2,3-cd)pyrene	8270D	87.9	100	88	92.3	100	92	65-124	4	30
Isophorone	8270D	68.1	100	68	76.7	100	77	50-116	12	30
N-Nitrosodi-n-propylamine	8270D	73.3	100	73	83.6	100	84	49-115	14	30
N-Nitrosodimethylamine	8270D	52.1	100	52	52.6	100	53	31-70	2	30
N-Nitrosodiphenylamine	8270D	84.2	100	84	93.9	100	94	45-123	11	30
Naphthalene	8270D	64.3	100	64	71.5	100	72	36-95	12	30
Nitrobenzene	8270D	64.4	100	64	70.8	100	71	46-108	10	30
Pentachlorophenol (PCP)	8270D	7.65 J	100	8 *	68.5	100	68	41-154	158*	30
Phenanthrene	8270D	80.7	100	81	87.9	100	88	58-118	8	30
Phenol	8270D	14.9	100	15	34.4	100	34	10-113	78*	30
Pyrene	8270D	82.7	100	83	89.1	100	89	69-127	7	30

Client: The LiRo Group **Service Request:**R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144 **Date Analyzed:**10/30/17 09:43

Tune Summary
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\103017\BM238.D\ **Analytical Method:** 8270D
Instrument ID: R-MS-54 **Analysis Lot:** 567960

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	29.93	15089	Pass
68	69	0.00	2	1.38	246	Pass
69	198	0.00	100	35.39	17840	Pass
70	69	0.00	2	0.46	82	Pass
127	198	10	80	47.56	23976	Pass
197	198	0.00	2	0.00	0	Pass
198	198	100	100	100.00	50416	Pass
199	198	5	9	7.09	3574	Pass
275	198	10	60	35.83	18064	Pass
365	198	1	100	7.76	3912	Pass
441	442	0.01	24	15.71	16472	Pass
442	442	100	100	100.00	104880	Pass
443	442	15	24	17.48	18336	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1711211-02	I:\ACQUDATA\5973D\Data\103017\BM239.D\	10/30/17 10:01	
Method Blank	RQ1711100-01	I:\ACQUDATA\5973D\Data\103017\BM241.D\	10/30/17 10:58	
Lab Control Sample	RQ1711100-02	I:\ACQUDATA\5973D\Data\103017\BM242.D\	10/30/17 11:26	
Duplicate Lab Control Sample	RQ1711100-03	I:\ACQUDATA\5973D\Data\103017\BM243.D\	10/30/17 11:55	
MW-7	R1710113-001	I:\ACQUDATA\5973D\Data\103017\BM252.D\	10/30/17 16:09	
MW-3	R1710113-002	I:\ACQUDATA\5973D\Data\103017\BM253.D\	10/30/17 16:37	
MW-D	R1710113-004	I:\ACQUDATA\5973D\Data\103017\BM254.D\	10/30/17 17:05	

Client: The LiRo Group **Service Request:**R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144 **Date Analyzed:**10/31/17 06:36

Tune Summary
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\103117\BM267.D\ **Analytical Method:** 8270D
Instrument ID: R-MS-54 **Analysis Lot:** 568326

Target Mass	Relative to Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result Pass/Fail
51	198	10	80	43.97	23365	Pass
68	69	0.00	2	1.20	298	Pass
69	198	0.00	100	46.57	24744	Pass
70	69	0.00	2	0.66	164	Pass
127	198	10	80	54.18	28787	Pass
197	198	0.00	2	1.29	687	Pass
198	198	100	100	100.00	53133	Pass
199	198	5	9	7.50	3987	Pass
275	198	10	60	27.76	14752	Pass
365	198	1	100	4.34	2304	Pass
441	442	0.01	24	16.01	10002	Pass
442	442	100	100	100.00	62462	Pass
443	442	15	24	17.95	11213	Pass

Sample Name	Lab Code	File ID:	Date Analyzed:	Q
Continuing Calibration Verification	RQ1711335-02	I:\ACQUDATA\5973D\Data\103117\BM268.D\	10/31/17 06:54	
MW-8	R1710113-006	I:\ACQUDATA\5973D\Data\103117\BM290.D\	10/31/17 17:13	

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144 **Date Analyzed:** 10/30/17 10:01

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\103017\BM239.D\ **Lab Code:** RQ1711211-02
Instrument ID: R-MS-54 **Analysis Lot:** 567960
Analysis Method: 8270D **Signal ID:**

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	99,861	4.77	197,680	7.64	371,952	12.39
	Upper Limit ==>	199,722	5.27	395,360	8.14	743,904	12.89
	Lower Limit ==>	49,931	4.27	98,840	7.14	185,976	11.89
Associated Analyses							
Method Blank	RQ1711100-01.R01	80664	4.77	151922	7.64	282132	12.37
Lab Control Sample	RQ1711100-02.R01	90851	4.77	172060	7.64	317524	12.39
Duplicate Lab Control Sample	RQ1711100-03.R01	91820	4.77	176932	7.64	326848	12.39
MW-7	R1710113-001	98500	4.77	189539	7.64	350902	12.37
MW-3	R1710113-002	91970	4.77	177018	7.64	330171	12.37
MW-D	R1710113-004	87885	4.77	163079	7.64	314783	12.37

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: The LiRo Group **Service Request:**R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144 **Date Analyzed:**10/30/17 10:01

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\103017\BM239.D\ **Lab Code:**RQ1711211-02
Instrument ID: R-MS-54 **Analysis Lot:**567960
Analysis Method: 8270D **Signal ID:**

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	378,468	5.93	364,191	15.31	360,868	9.11
	Upper Limit ==>	756,936	6.43	728,382	15.81	721,736	9.61
	Lower Limit ==>	189,234	5.43	182,096	14.81	180,434	8.61
Associated Analyses							
Method Blank	RQ1711100-01.R01	307523	5.93	304527	15.31	283022	9.11
Lab Control Sample	RQ1711100-02.R01	344190	5.93	320410	15.31	299533	9.11
Duplicate Lab Control Sample	RQ1711100-03.R01	345435	5.93	328164	15.31	306422	9.11
MW-7	R1710113-001	371689	5.93	383386	15.31	333594	9.11
MW-3	R1710113-002	344918	5.93	345718	15.31	324925	9.11
MW-D	R1710113-004	325999	5.93	321959	15.31	289294	9.11

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144 **Date Analyzed:** 10/31/17 06:54

Internal Standard Area and RT SUMMARY
Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\103117\BM268.D\ **Lab Code:** RQ1711335-02
Instrument ID: R-MS-54 **Analysis Lot:** 568326
Analysis Method: 8270D **Signal ID:**

		1,4-Dichlorobenzene-d4		Acenaphthene-d10		Chrysene-d12	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	91,693	4.78	200,993	7.65	365,649	12.40
	Upper Limit ==>	183,386	5.28	401,986	8.15	731,298	12.90
	Lower Limit ==>	45,847	4.28	100,497	7.15	182,825	11.90
Associated Analyses							
MW-8	R1710113-006	106983	4.77	205928	7.65	370659	12.40

Client: The LiRo Group **Service Request:** R1710113

Project: City of Buffalo - Franczyk Park Site/17-039-1144 **Date Analyzed:** 10/31/17 06:54

Internal Standard Area and RT SUMMARY

Semivolatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\5973D\Data\103117\BM268.D\ **Lab Code:** RQ1711335-02

Instrument ID: R-MS-54 **Analysis Lot:** 568326

Analysis Method: 8270D **Signal ID:**

		Naphthalene-d8		Perylene-d12		Phenanthrene-d10	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	ICAL Result ==>	363,291	5.94	368,678	15.34	340,406	9.12
	Upper Limit ==>	726,582	6.44	737,356	15.84	680,812	9.62
	Lower Limit ==>	181,646	5.44	184,339	14.84	170,203	8.62
Associated Analyses							
MW-8	R1710113-006	399499	5.94	372709	15.34	381554	9.11

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	9420	94	10000	9220	92	9260	93	P
Antimony	5000	4870	97	5000	4800	96	4770	95	P
Arsenic	1000	962	96	1000	945	94	947	95	P
Barium	10000	10200	102	10000	10100	101	10100	101	P
Beryllium	250	251	100	250	248	99	247	99	P
Cadmium	500	498	100	500	494	99	494	99	P
Mercury	3.00	3.04	101	3.00	3.03	101	3.02	101	CV
Chromium	500	500	100	500	498	100	497	99	P
Cobalt	2500	2570	103	2500	2550	102	2540	102	P
Copper	1250	1200	96	1250	1160	93	1150	92	P
Iron	5000	4810	96	5000	4750	95	4790	96	P
Lead	500	498	100	500	493	99	490	98	P
Magnesium	25000	24900	100	25000	24700	99	24800	99	P
Nickel	2000	2030	102	2000	2000	100	1990	100	P
Potassium	25000	24500	98	25000	23900	96	23700	95	P
Selenium	500	479	96	500	485	97	479	96	P
Silver	500	486	97	500	479	96	477	95	P
Sodium	25000	24500	98	25000	24000	96	23700	95	P
Thallium	1000	978	98	1000	960	96	954	95	P
Vanadium	2500	2500	100	2500	2460	98	2450	98	P
Zinc	1000	997	100	1000	991	99	989	99	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000	9530	95	9670	97	P
Antimony				5000	4940	99	5020	100	P
Arsenic				1000	974	97	1000	100	P
Barium				10000	10500	105	10700	107	P
Beryllium				250	256	102	260	104	P
Cadmium				500	512	102	524	105	P
Mercury				3.00	3.04	101	3.05	102	CV
Chromium				500	516	103	527	105	P
Cobalt				2500	2640	106	2690	108	P
Copper				1250	1190	95	1210	97	P
Iron				5000	4930	99	5350	107	P
Lead				500	507	101	525	105	P
Magnesium				25000	25600	102	26300	105	P
Nickel				2000	2070	104	2110	106	P
Potassium				25000	24600	98	24600	98	P
Selenium				500	503	101	512	102	P
Silver				500	494	99	501	100	P
Sodium				25000	24600	98	24700	99	P
Thallium				1000	989	99	997	100	P
Vanadium				2500	2550	102	2590	104	P
Zinc				1000	1030	103	1050	105	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000	9490	95	9660	97	P
Antimony				5000	4960	99	5000	100	P
Arsenic				1000	984	98	991	99	P
Barium				10000	10500	105	10600	106	P
Beryllium				250	257	103	259	104	P
Cadmium				500	519	104	522	104	P
Mercury				3.00	3.02	101	3.04	101	CV
Chromium				500	520	104	526	105	P
Cobalt				2500	2660	106	2680	107	P
Copper				1250	1190	95	1200	96	P
Iron				5000	4980	100	5060	101	P
Lead				500	517	103	517	103	P
Magnesium				25000	25800	103	26100	104	P
Nickel				2000	2090	104	2100	105	P
Potassium				25000	24200	97	24300	97	P
Selenium				500	503	101	508	102	P
Silver				500	497	99	499	100	P
Sodium				25000	24300	97	24500	98	P
Thallium				1000	989	99	997	100	P
Vanadium				2500	2560	102	2580	103	P
Zinc				1000	1040	104	1040	104	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium	25000	24200	97	25000	24300	97	24300	97	P
Iron	5000	4860	97	5000	4880	98	4860	97	P
Lead	500	500	100	500	499	100	499	100	P
Magnesium	25000	25000	100	25000	25000	100	25000	100	P
Manganese	750	753	100	750	753	100	755	101	P
Selenium	500	485	97	500	480	96	485	97	P
Thallium	1000	987	99	1000	990	99	991	99	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Calcium				25000	24400	98	24400	98	P
Iron				5000	4890	98	4930	99	P
Lead				500	503	101	504	101	P
Magnesium				25000	25200	101	25300	101	P
Manganese				750	760	101	765	102	P
Selenium				500	485	97	488	98	P
Thallium				1000	996	100	999	100	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Calcium				25000	24600	98	24500	98	P
Iron				5000	4910	98	4900	98	P
Lead				500	503	101	500	100	P
Magnesium				25000	25100	100	25200	101	P
Manganese				750	761	101	761	101	P
Selenium				500	482	96	484	97	P
Thallium				1000	999	100	1000	100	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium				25000	24500	98			P
Iron				5000	4930	99			P
Lead				500	506	101			P
Magnesium				25000	25300	101			P
Manganese				750	766	102			P
Selenium				500	489	98			P
Thallium				1000	1000	100			P

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				200.0	170.00	85	177.10	89
Antimony				60.0	57.60	96	59.30	99
Arsenic				20.0	18.30	92	19.80	99
Barium				200.0	209.80	105	219.20	110
Beryllium				5.0	4.80	96	5.00	100
Cadmium				10.0	10.10	101	10.70	107
Mercury	0.200	0.196	98					
Chromium				10.0	10.30	103	10.60	106
Cobalt				50.0	51.10	102	53.60	107
Copper				25.0	23.70	95	24.40	98
Iron				100.0	101.50	102	107.50	108
Lead				10.0	10.20	102	10.00	100
Magnesium				1000.0	985.50	99	1027.30	103
Nickel				40.0	39.90	100	42.00	105
Potassium				1000.0	919.20	92	951.70	95
Selenium				10.0	10.90	109	12.00	120
Silver				10.0	9.30	93	9.70	97
Sodium				1000.0	962.30	96	961.00	96
Thallium				20.0	18.90	94	20.00	100
Vanadium				50.0	49.00	98	51.40	103
Zinc				20.0	19.40	97	20.40	102

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.200	0.197	98					

Comments:

METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

AA CRDL Standard Source: ACCUSTANDARD

ICP CRDL Standard Source:

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Calcium				1000.0	954.20	95	1007.60	101
Iron				100.0	96.50	96	97.60	98
Lead				10.0	10.40	104	9.50	95
Magnesium				1000.0	989.50	99	1000.70	100
Manganese				15.0	15.20	101	15.40	103
Selenium				10.0	8.30	83	9.40	94
Thallium				20.0	16.70	84	16.10	80

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Antimony	60.00	U	60.00	U	60.00	U	60.00	U	60.000	U	P
Arsenic	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Barium	20.00	U	20.00	U	20.00	U	20.00	U	20.000	U	P
Beryllium	3.00	U	3.00	U	3.00	U	3.00	U	3.000	U	P
Cadmium	5.00	U	5.00	U	5.00	U	5.00	U	5.000	U	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	CV
Chromium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Cobalt	50.00	U	50.00	U	50.00	U	50.00	U	50.000	U	P
Copper	20.00	U	20.00	U	20.00	U	20.00	U	20.000	U	P
Iron	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Lead	50.00	U	50.00	U	50.00	U	50.00	U	50.000	U	P
Magnesium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Nickel	40.00	U	40.00	U	40.00	U	40.00	U	40.000	U	P
Potassium	2000.00	U	2000.00	U	2000.00	U	2000.00	U	2000.000	U	P
Selenium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Silver	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Sodium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Thallium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Vanadium	50.00	U	50.00	U	50.00	U	50.00	U	50.000	U	P
Zinc	20.00	U	20.00	U	20.00	U	20.00	U	20.000	U	P

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			100.00	U	100.00	U	100.00	U			P
Antimony			60.00	U	60.00	U	60.00	U			P
Arsenic			10.00	U	10.00	U	10.00	U			P
Barium			20.00	U	20.00	U	20.00	U			P
Beryllium			3.00	U	3.00	U	3.00	U			P
Cadmium			5.00	U	5.00	U	5.00	U			P
Mercury			0.200	U	0.200	U	0.200	U			CV
Chromium			10.00	U	10.00	U	10.00	U			P
Cobalt			50.00	U	50.00	U	50.00	U			P
Copper			20.00	U	20.00	U	20.00	U			P
Iron			100.00	U	100.00	U	100.00	U			P
Lead			50.00	U	50.00	U	50.00	U			P
Magnesium			1000.00	U	1000.00	U	1000.00	U			P
Nickel			40.00	U	40.00	U	40.00	U			P
Potassium			2000.00	U	2000.00	U	2000.00	U			P
Selenium			10.00	U	10.00	U	10.00	U			P
Silver			10.00	U	10.00	U	10.00	U			P
Sodium			1000.00	U	1000.00	U	1000.00	U			P
Thallium			10.00	U	10.00	U	10.00	U			P
Vanadium			50.00	U	50.00	U	50.00	U			P
Zinc			20.00	U	20.00	U	20.00	U			P

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Calcium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Iron	100.00	U	100.00	U	100.00	U	100.00	U			P
Lead	50.00	U	50.00	U	50.00	U	50.00	U			P
Magnesium	1000.00	U	1000.00	U	1000.00	U	1000.00	U			P
Manganese	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Selenium	10.00	U	10.00	U	10.00	U	10.00	U			P
Thallium	10.00	U	10.00	U	10.00	U	10.00	U			P

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Calcium			1000.00	U	1000.00	U	1000.00	U			P
Iron			100.00	U	100.00	U	100.00	U			P
Lead			50.00	U	50.00	U	50.00	U			P
Magnesium			1000.00	U	1000.00	U	1000.00	U			P
Manganese			10.00	U	10.00	U	10.00	U			P
Selenium			10.00	U	10.00	U	10.00	U			P
Thallium			10.00	U	10.00	U	10.00	U			P

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Calcium			1000.00	U							P
Iron			100.00	U							P
Lead			50.00	U							P
Magnesium			1000.00	U							P
Manganese			10.00	U							P
Selenium			10.00	U							P
Thallium			10.00	U							P

Comments:

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

ICP ID Number: Agilent ICP ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	250000	250000	254000.0	254000	102	263000.0	264000	106
Antimony		600	-1.6	596	99	-4.8	622	104
Arsenic		100	-1.0	101	101	4.5	107	107
Barium		500	1.3	515	103	0.9	541	108
Beryllium		500	0.0	492	98	0.0	516	103
Cadmium		1000	-0.9	949	95	-0.9	1000	100
Chromium		500	0.2	485	97	0.0	511	102
Cobalt		500	-1.6	486	97	-2.7	510	102
Copper		500	0.7	504	101	0.8	520	104
Iron	100000	100000	87500.0	87200	87	91900.0	92200	92
Lead		50	-2.7	47	94	-1.4	50	100
Magnesium	250000	250000	261000.0	261000	104	273000.0	274000	110
Nickel		1000	-2.4	937	94	-2.6	983	98
Potassium			77.9	12		86.5	59	
Selenium		50	1.1	49	98	6.2	58	116
Silver		200	0.0	209	104	0.0	217	108
Sodium			-8.9	-1		-26.1	-18	
Thallium		100	5.1	111	111	1.7	115	115
Vanadium		500	3.2	494	99	3.5	519	104
Zinc		1000	11.0	1010	101	11.8	1060	106

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

ICP ID Number: Agilent ICP ICS Source: PERKIN ELMER

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Calcium	250000	250000	269000.0	267000	107	272000.0	269000	108
Iron	100000	100000	89400.0	89400	89	89800.0	90000	90
Lead		50	-4.3	49	98	-1.5	47	94
Magnesium	250000	250000	265000.0	264000	106	266000.0	266000	106
Manganese		500	1.5	498	100	1.6	502	100
Selenium		50	0.2	51	102	4.1	49	98
Thallium		100	1.0	113	113	1.6	117	117

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Solid LCS Source: _____

Aqueous LCS Source: CPI

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	2000	1810	90					
Antimony	500	485	97					
Arsenic	40	38	95					
Barium	2000	2040	102					
Beryllium	50	49	98					
Cadmium	50	51	102					
Mercury	1.000	1.010	101					
Calcium	2000	1910	96					
Chromium	200	197	98					
Cobalt	500	507	101					
Copper	250	236	94					
Iron	1000	967	97					
Lead	500	510	102					
Magnesium	2000	1980	99					
Manganese	500	495	99					
Nickel	500	504	101					
Potassium	20000	18700	94					
Selenium	1010	1050	104					
Silver	50	49	98					
Sodium	20000	19000	95					
Thallium	2000	1820	91					
Vanadium	500	490	98					
Zinc	500	508	102					

Comments: _____

METALS

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

MW-8 DissL

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	89000.00		83400.00		6		P
Antimony	60.00	U	300.00	U			P
Arsenic	347.00		342.00		1		P
Barium	1970.00		2100.00		7		P
Beryllium	3.00		15.00	U	100.0		P
Cadmium	5.00	U	25.00	U			P
Chromium	163.00		179.00		10		P
Cobalt	50.00	U	250.00	U			P
Copper	487.00		462.00		5		P
Magnesium	210000.00		209000.00		0		P
Nickel	77.60		200.00	U	100.0		P
Potassium	89300.00		83300.00		7		P
Silver	10.00	U	50.00	U			P
Sodium	39200.00		37500.00		4		P
Thallium	26.00		50.00	U	100.0		P
Vanadium	181.00		250.00	U	100.0		P
Zinc	1440.00		1450.00		1		P

Comments: _____

METALS

-10-

DETECTION LIMITS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

ICP ID Number: _____ Date: 5/5/2017

Flame AA ID Number: PE FAA/CVAA

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Mercury	253.70	BD	0.200	0.200	CV

Comments:

METALS

-10-

DETECTION LIMITS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

ICP ID Number: Agilent ICP Date: 3/23/2017

Flame AA ID Number: _____

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	PQL ug/L	MDL ug/L	M
Aluminum	394.401		100.0	100.0	P
Antimony	217.582		60.0	60.0	P
Arsenic	188.980		10.0	10.0	P
Barium	230.424		20.0	20.0	P
Beryllium	313.107		3.0	3.0	P
Cadmium	214.439		5.0	5.0	P
Calcium	227.547		1000.0	1000.0	P
Chromium	267.716		10.0	10.0	P
Cobalt	230.786		50.0	50.0	P
Copper	327.395		20.0	20.0	P
Iron	234.350		100.0	100.0	P
Lead	220.353		50.0	50.0	P
Magnesium	279.078		1000.0	1000.0	P
Manganese	257.610		10.0	10.0	P
Nickel	230.299		40.0	40.0	P
Potassium	766.491		2000.0	2000.0	P
Selenium	196.026		10.0	10.0	P
Silver	328.068		10.0	10.0	P
Sodium	588.995		1000.0	1000.0	P
Thallium	351.923		10.0	10.0	P
Vanadium	292.401		50.0	50.0	P
Zinc	213.857		20.0	20.0	P

Comments: _____

METALS
ICP LINEAR RANGES (QUARTERLY)
-12-

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

ICP ID Number: Agilent ICP Date: 4/28/2017

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	1.000	500000	P
Antimony	1.000	10000	P
Arsenic	1.000	4000	P
Barium	1.000	40000	P
Beryllium	1.000	1000	P
Cadmium	1.000	2000	P
Calcium	1.000	250000	P
Chromium	1.000	10000	P
Cobalt	1.000	10000	P
Copper	1.000	5000	P
Iron	1.000	50000	P
Lead	1.000	10000	P
Magnesium	1.000	500000	P
Manganese	1.000	10000	P
Nickel	1.000	8000	P
Potassium	1.000	150000	P
Selenium	1.000	2000	P
Silver	1.000	2000	P
Sodium	1.000	150000	P
Thallium	1.000	4000	P
Vanadium	1.000	10000	P
Zinc	1.000	4000	P

Comments: _____

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 11/1/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
BLANK	1.00	17:20								X				X	X	X	X				X			X						
STANDARD 1	1.00	17:24								X				X	X	X	X				X			X						
STANDARD 2	1.00	17:27								X				X	X	X	X				X			X						
STANDARD 3	1.00	17:30								X				X	X	X	X				X			X						
STANDARD 4	1.00	17:34								X				X	X	X	X				X			X						
STANDARD 5	1.00	17:37								X				X	X	X	X				X			X						
ICV2	1.00	17:40								X				X	X	X	X				X			X						
ICB2	1.00	17:44								X				X	X	X	X				X			X						
CRDL1	1.00	17:47								X				X	X	X	X				X			X						
ICS-A1	1.00	17:50								X				X	X	X	X				X			X						
ICS-AB1	1.00	17:54								X				X	X	X	X				X			X						
CCV1	1.00	17:57								X				X	X	X	X				X			X						
CCB1	1.00	18:00								X				X	X	X	X				X			X						
ZZZZZZ	1.00	18:04																												
ZZZZZZ	1.00	18:07																												
ZZZZZZ	10.00	18:10																												
ZZZZZZ	10.00	18:13																												
ZZZZZZ	1.00	18:17																												
ZZZZZZ	1.00	18:20																												
ZZZZZZ	1.00	18:23																												
ZZZZZZ	5.00	18:27																												
PBW	1.00	18:30								X							X													
LCSW	1.00	18:33								X							X													
CCV2	1.00	18:37								X				X	X	X	X				X			X						
CCB2	1.00	18:40								X				X	X	X	X				X			X						
ZZZZZZ	1.00	18:43																												
ZZZZZZ	1.00	18:47																												
ZZZZZZ	1.00	18:50																												
ZZZZZZ	1.00	18:53																												
ZZZZZZ	5.00	18:57																												
ZZZZZZ	1.00	19:00																												
ZZZZZZ	1.00	19:03																												
ZZZZZZ	1.00	19:07																												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 11/1/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	10.00	19:10																												
ZZZZZZ	1.00	19:13																												
CCV3	1.00	19:17								X				X	X	X	X				X			X						
CCB3	1.00	19:20								X				X	X	X	X				X			X						
ZZZZZZ	1.00	19:23																												
ZZZZZZ	10.00	19:27																												
ZZZZZZ	1.00	19:30																												
MW-7	10.00	19:33								X							X							X						
MW-7	1.00	19:36																												
MW-3 Diss	100.00	19:40												X																
MW-3 Diss	10.00	19:43								X						X	X				X			X						
MW-3 Diss	2.00	19:46																												
MW-3 Diss	1.00	19:50													X															
MW-3	100.00	19:53												X																
CCV4	1.00	19:56								X				X	X	X	X				X			X						
CCB4	1.00	20:00								X				X	X	X	X				X			X						
MW-3	10.00	20:03								X							X			X				X						
MW-3	2.00	20:06																			X									
MW-3	1.00	20:10																												
MW-D	100.00	20:13												X																
MW-D	10.00	20:16								X							X			X				X						
MW-D	2.00	20:20																												
MW-D Diss	100.00	20:23												X																
MW-D Diss	10.00	20:26								X							X			X										
CCV5	1.00	20:30								X				X	X	X	X				X			X						
CCB5	1.00	20:33								X				X	X	X	X				X			X						
MW-D Diss	2.00	20:36																						X						
MW-D Diss	1.00	20:40																			X									
MW-8	10.00	20:43								X				X	X		X			X										
MW-8 Diss	10.00	20:46								X				X	X		X													
MW-8 Diss	1.00	20:49																			X									
ZZZZZZ	10.00	20:53																												
ZZZZZZ	1.00	20:56																												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 11/1/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	20:59																												
ZZZZZZ	1.00	21:03																												
CCV6	1.00	21:06								X				X	X	X	X				X			X			
CCB6	1.00	21:09								X				X	X	X	X				X			X			
CRDL2	1.00	21:13								X				X	X	X	X				X			X			
ICS-A2	1.00	21:16								X				X	X	X	X				X			X			
ICS-AB2	1.00	21:19								X				X	X	X	X				X			X			
ZZZZZZ	1.00	21:23																												
ZZZZZZ	1.00	21:26																												
ZZZZZZ	1.00	21:29																												
CCV7	1.00	21:33								X				X	X	X	X				X			X			
CCB7	1.00	21:36								X				X	X	X	X				X			X			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 10/31/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
BLANK	1.00	18:19		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
STANDARD 1	1.00	18:22		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
STANDARD 2	1.00	18:25		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
STANDARD 3	1.00	18:29		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
STANDARD 4	1.00	18:32		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
STANDARD 5	1.00	18:35		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICV1	1.00	18:39		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICB1	1.00	18:42		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	18:45																												
ZZZZZZ	1.00	18:49																												
ZZZZZZ	1.00	18:52																												
ZZZZZZ	1.00	18:55																												
ZZZZZZ	1.00	18:59																												
ZZZZZZ	1.00	19:02																												
ZZZZZZ	1.00	19:05																												
ZZZZZZ	1.00	19:09																												
ZZZZZZ	1.00	19:12																												
ZZZZZZ	100.00	19:15																												
ZZZZZZ	1.00	19:19																												
ZZZZZZ	1.00	19:22																												
ZZZZZZ	1.00	19:25																												
ZZZZZZ	1.00	19:29																												
ZZZZZZ	1.00	19:32																												
ZZZZZZ	1.00	19:35																												
ZZZZZZ	1.00	19:39																												
ZZZZZZ	5.00	19:42																												
ZZZZZZ	1.00	19:45																												
ZZZZZZ	10.00	19:48																												
ZZZZZZ	1.00	19:52																												
ZZZZZZ	1.00	19:55																												
ZZZZZZ	100.00	19:58																												
ZZZZZZ	1.00	20:02																												
ZZZZZZ	1.00	20:05																												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 10/31/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																											
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN				
ZZZZZZ	10.00	20:08																													
ZZZZZZ	1.00	20:12																													
ZZZZZZ	1.00	20:15																													
ZZZZZZ	1.00	20:18																													
ZZZZZZ	1.00	20:22																													
ZZZZZZ	1.00	20:25																													
ZZZZZZ	1.00	20:28																													
ZZZZZZ	1.00	20:32																													
ZZZZZZ	1.00	20:35																													
ZZZZZZ	1.00	20:38																													
ZZZZZZ	1.00	20:42																													
ZZZZZZ	1.00	20:45																													
ZZZZZZ	1.00	20:48																													
ZZZZZZ	1.00	20:52																													
ZZZZZZ	1.00	20:55																													
ZZZZZZ	1.00	20:58																													
ZZZZZZ	1.00	21:02																													
ZZZZZZ	1.00	21:05																													
ZZZZZZ	1.00	21:08																													
ZZZZZZ	1.00	21:11																													
ZZZZZZ	1.00	21:15																													
ZZZZZZ	1.00	21:18																													
ZZZZZZ	1.00	21:21																													
ZZZZZZ	1.00	21:25																													
ZZZZZZ	5.00	21:28																													
ZZZZZZ	1.00	21:31																													
ZZZZZZ	1.00	21:35																													
ZZZZZZ	1.00	21:38																													
ZZZZZZ	1.00	21:41																													
ZZZZZZ	1.00	21:45																													
ZZZZZZ	1.00	21:48																													
ZZZZZZ	1.00	21:51																													
ZZZZZZ	1.00	21:55																													

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 10/31/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	21:58																												
ZZZZZZ	1.00	22:01																												
ZZZZZZ	1.00	22:05																												
ZZZZZZ	5.00	22:08																												
ZZZZZZ	1.00	22:11																												
ZZZZZZ	1.00	22:14																												
ZZZZZZ	1.00	22:18																												
ZZZZZZ	1.00	22:21																												
ZZZZZZ	1.00	22:24																												
ZZZZZZ	1.00	22:28																												
ZZZZZZ	1.00	22:31																												
ZZZZZZ	1.00	22:34																												
ZZZZZZ	1.00	22:38																												
ZZZZZZ	1.00	22:41																												
ZZZZZZ	1.00	22:44																												
ZZZZZZ	1.00	22:48																												
ZZZZZZ	1.00	22:51																												
ZZZZZZ	1.00	22:54																												
CCV1	1.00	22:58		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB1	1.00	23:01		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CRDL1	1.00	23:04		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICS-A1	1.00	23:08		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICS-AB1	1.00	23:11		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCV2	1.00	23:14		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB2	1.00	23:18		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
PBW	1.00	23:21		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
LCSW	1.00	23:24		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	23:28																												
ZZZZZZ	1.00	23:31																												
ZZZZZZ	1.00	23:34																												
ZZZZZZ	1.00	23:37																												
ZZZZZZ	5.00	23:41																												
ZZZZZZ	1.00	23:44																												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 10/31/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	23:47																												
ZZZZZZ	1.00	23:51																												
CCV3	1.00	23:54		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB3	1.00	23:57		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	00:01																												
ZZZZZZ	1.00	00:04																												
ZZZZZZ	1.00	00:07																												
ZZZZZZ	1.00	00:11																												
MW-7	1.00	00:14		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X		X	X				
MW-3 Diss	1.00	00:17		X	X	X	X	X	X		X	X	X						X		X	X	X		X	X				
MW-3	1.00	00:21		X	X	X	X	X	X		X	X	X		X	X			X			X	X		X	X				
MW-D	1.00	00:24		X	X	X	X	X	X		X	X	X		X	X			X		X	X	X		X	X				
MW-D Diss	1.00	00:27		X	X	X	X	X	X		X	X	X		X	X			X			X	X		X	X				
MW-8	1.00	00:30		X	X	X	X	X	X		X	X	X			X			X		X	X	X	X	X	X				
CCV4	1.00	00:34		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB4	1.00	00:37		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
MW-8 Diss	1.00	00:40		X	X	X	X	X	X		X	X	X			X			X	X		X	X	X	X	X				
MW-8 DissL	5.00	00:44		X	X	X	X	X	X		X	X	X			X			X	X		X	X	X	X	X				
ZZZZZZ	1.00	00:47																												
ZZZZZZ	1.00	00:50																												
CCV5	1.00	00:54		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB5	1.00	00:57		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CRDL2	1.00	01:00		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICS-A2	1.00	01:04		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICS-AB2	1.00	01:07		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCV6	1.00	01:10		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB6	1.00	01:14		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 11/3/2017 End Date: 11/3/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
Calib Blank	1.00	12:20																X												
0.2ppb std	1.00	12:22																X												
0.5ppb std	1.00	12:23																X												
1.0ppb std	1.00	12:25																X												
2.0ppb std	1.00	12:27																X												
5.0ppb std	1.00	12:28																X												
10.0ppb std	1.00	12:30																X												
ICV1	1.00	12:31																X												
ICB1	1.00	12:33																X												
CRDL1	1.00	12:35																X												
CCV1	1.00	12:36																X												
CCB1	1.00	12:38																X												
PBW	1.00	12:40																X												
LCSW	1.00	12:41																X												
ZZZZZZ	1.00	12:43																												
ZZZZZZ	1.00	12:44																												
ZZZZZZ	1.00	12:46																												
CCV2	1.00	12:48																X												
CCB2	1.00	12:49																X												
ZZZZZZ	1.00	12:51																												
ZZZZZZ	1.00	12:53																												
ZZZZZZ	1.00	12:54																												
MW-7	1.00	12:56																X												
MW-3 Diss	1.00	12:58																X												
CCV3	1.00	12:59																X												
CCB3	1.00	13:01																X												
MW-3	1.00	13:02																X												
MW-D	1.00	13:04																X												
MW-D Diss	1.00	13:06																X												
MW-8	1.00	13:07																												
MW-8 Diss	1.00	13:09																X												
CCV4	1.00	13:11																X												
CCB4	1.00	13:12																X												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 11/3/2017 End Date: 11/3/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	13:14																												
ZZZZZZ	1.00	13:16																												
ZZZZZZ	1.00	13:17																												
ZZZZZZ	1.00	13:19																												
MW-8	5.00	13:20																X												
ZZZZZZ	1.00	13:22																												
CCV5	1.00	13:24																X												
CCB5	1.00	13:25																X												
ZZZZZZ	1.00	13:27																												
ZZZZZZ	1.00	13:29																												
ZZZZZZ	1.00	13:30																												
ZZZZZZ	1.00	13:32																												
ZZZZZZ	1.00	13:34																												
CRDL2	1.00	13:35																X												
CCV6	1.00	13:37																X												
CCB6	1.00	13:39																X												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Raw Data

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17 11:05
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-7	**Units:**	ug/L
Lab Code:	R1710113-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
1,2-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
1,3-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
1,4-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4,5-Trichlorophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4,6-Trichlorophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4-Dichlorophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4-Dimethylphenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,4-Dinitrophenol	47 U	47	1	10/30/17 16:09	10/26/17	
2,4-Dinitrotoluene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,6-Dinitrotoluene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Chloronaphthalene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Chlorophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Methylnaphthalene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Methylphenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2-Nitroaniline	47 U	47	1	10/30/17 16:09	10/26/17	
2-Nitrophenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
3,3'-Dichlorobenzidine	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
3- and 4-Methylphenol Coelution	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
3-Nitroaniline	47 U	47	1	10/30/17 16:09	10/26/17	
4,6-Dinitro-2-methylphenol	47 U	47	1	10/30/17 16:09	10/26/17	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
4-Chloro-3-methylphenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
4-Chloroaniline	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
4-Nitroaniline	47 U	47	1	10/30/17 16:09	10/26/17	
4-Nitrophenol	47 U	47	1	10/30/17 16:09	10/26/17	
Acenaphthene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Acenaphthylene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Anthracene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benz(a)anthracene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzo(a)pyrene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzo(b)fluoranthene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzo(g,h,i)perylene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzo(k)fluoranthene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Benzyl Alcohol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Bis(2-chloroethoxy)methane	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Butyl Benzyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Carbazole	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Chrysene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17 11:05
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-7	**Units:**	ug/L
Lab Code:	R1710113-001	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Di-n-octyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Dibenz(a,h)anthracene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Dibenzofuran	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Diethyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Dimethyl Phthalate	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Fluoranthene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Fluorene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Hexachlorobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Hexachlorobutadiene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Hexachlorocyclopentadiene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Hexachloroethane	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Isophorone	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
N-Nitrosodimethylamine	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
N-Nitrosodiphenylamine	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Naphthalene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Nitrobenzene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Pentachlorophenol (PCP)	47 U	47	1	10/30/17 16:09	10/26/17	
Phenanthrene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Phenol	9.4 U	9.4	1	10/30/17 16:09	10/26/17	
Pyrene	9.4 U	9.4	1	10/30/17 16:09	10/26/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	10/30/17 16:09	
2-Fluorobiphenyl	72	31 - 118	10/30/17 16:09	
2-Fluorophenol	37	10 - 105	10/30/17 16:09	
Nitrobenzene-d5	72	31 - 110	10/30/17 16:09	
Phenol-d6	25	10 - 107	10/30/17 16:09	
p-Terphenyl-d14	77	30 - 133	10/30/17 16:09	

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17 13:30
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R1710113-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
1,2-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
1,3-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
1,4-Dichlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4,5-Trichlorophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4,6-Trichlorophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4-Dichlorophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4-Dimethylphenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,4-Dinitrophenol	47 U	47	1	10/30/17 16:37	10/26/17	
2,4-Dinitrotoluene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,6-Dinitrotoluene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Chloronaphthalene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Chlorophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Methylnaphthalene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Methylphenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2-Nitroaniline	47 U	47	1	10/30/17 16:37	10/26/17	
2-Nitrophenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
3,3'-Dichlorobenzidine	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
3- and 4-Methylphenol Coelution	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
3-Nitroaniline	47 U	47	1	10/30/17 16:37	10/26/17	
4,6-Dinitro-2-methylphenol	47 U	47	1	10/30/17 16:37	10/26/17	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
4-Chloro-3-methylphenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
4-Chloroaniline	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
4-Nitroaniline	47 U	47	1	10/30/17 16:37	10/26/17	
4-Nitrophenol	47 U	47	1	10/30/17 16:37	10/26/17	
Acenaphthene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Acenaphthylene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Anthracene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benz(a)anthracene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzo(a)pyrene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzo(b)fluoranthene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzo(g,h,i)perylene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzo(k)fluoranthene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Benzyl Alcohol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Bis(2-chloroethoxy)methane	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Butyl Benzyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Carbazole	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Chrysene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17 13:30
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-3	**Units:**	ug/L
Lab Code:	R1710113-002	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Di-n-octyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Dibenz(a,h)anthracene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Dibenzofuran	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Diethyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Dimethyl Phthalate	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Fluoranthene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Fluorene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Hexachlorobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Hexachlorobutadiene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Hexachlorocyclopentadiene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Hexachloroethane	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Isophorone	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
N-Nitrosodimethylamine	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
N-Nitrosodiphenylamine	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Naphthalene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Nitrobenzene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Pentachlorophenol (PCP)	47 U	47	1	10/30/17 16:37	10/26/17	
Phenanthrene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Phenol	9.4 U	9.4	1	10/30/17 16:37	10/26/17	
Pyrene	9.4 U	9.4	1	10/30/17 16:37	10/26/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	48	35 - 141	10/30/17 16:37	
2-Fluorobiphenyl	43	31 - 118	10/30/17 16:37	
2-Fluorophenol	22	10 - 105	10/30/17 16:37	
Nitrobenzene-d5	44	31 - 110	10/30/17 16:37	
Phenol-d6	14	10 - 107	10/30/17 16:37	
p-Terphenyl-d14	47	30 - 133	10/30/17 16:37	

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-D	**Units:**	ug/L
Lab Code:	R1710113-004	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
1,2-Dichlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
1,3-Dichlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
1,4-Dichlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4,5-Trichlorophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4,6-Trichlorophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4-Dichlorophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4-Dimethylphenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,4-Dinitrophenol	47 U	47	1	10/30/17 17:05	10/26/17	
2,4-Dinitrotoluene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,6-Dinitrotoluene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Chloronaphthalene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Chlorophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Methylnaphthalene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Methylphenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2-Nitroaniline	47 U	47	1	10/30/17 17:05	10/26/17	
2-Nitrophenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
3,3'-Dichlorobenzidine	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
3- and 4-Methylphenol Coelution	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
3-Nitroaniline	47 U	47	1	10/30/17 17:05	10/26/17	
4,6-Dinitro-2-methylphenol	47 U	47	1	10/30/17 17:05	10/26/17	
4-Bromophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
4-Chloro-3-methylphenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
4-Chloroaniline	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
4-Chlorophenyl Phenyl Ether	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
4-Nitroaniline	47 U	47	1	10/30/17 17:05	10/26/17	
4-Nitrophenol	47 U	47	1	10/30/17 17:05	10/26/17	
Acenaphthene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Acenaphthylene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Anthracene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benz(a)anthracene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzo(a)pyrene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzo(b)fluoranthene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzo(g,h,i)perylene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzo(k)fluoranthene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Benzyl Alcohol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
2,2'-Oxybis(1-chloropropane)	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Bis(2-chloroethoxy)methane	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Bis(2-chloroethyl) Ether	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Bis(2-ethylhexyl) Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Butyl Benzyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Carbazole	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Chrysene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/24/17
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-D	**Units:**	ug/L
Lab Code:	R1710113-004	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Di-n-octyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Dibenz(a,h)anthracene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Dibenzofuran	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Diethyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Dimethyl Phthalate	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Fluoranthene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Fluorene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Hexachlorobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Hexachlorobutadiene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Hexachlorocyclopentadiene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Hexachloroethane	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Indeno(1,2,3-cd)pyrene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Isophorone	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
N-Nitrosodi-n-propylamine	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
N-Nitrosodimethylamine	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
N-Nitrosodiphenylamine	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Naphthalene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Nitrobenzene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Pentachlorophenol (PCP)	47 U	47	1	10/30/17 17:05	10/26/17	
Phenanthrene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Phenol	9.4 U	9.4	1	10/30/17 17:05	10/26/17	
Pyrene	9.4 U	9.4	1	10/30/17 17:05	10/26/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	77	35 - 141	10/30/17 17:05	
2-Fluorobiphenyl	71	31 - 118	10/30/17 17:05	
2-Fluorophenol	39	10 - 105	10/30/17 17:05	
Nitrobenzene-d5	71	31 - 110	10/30/17 17:05	
Phenol-d6	27	10 - 107	10/30/17 17:05	
p-Terphenyl-d14	71	30 - 133	10/30/17 17:05	

Analytical Report

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/25/17 09:00
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-8	**Units:**	ug/L
Lab Code:	R1710113-006	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4-Trichlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
1,2-Dichlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
1,3-Dichlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
1,4-Dichlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
2,4,5-Trichlorophenol	19 U	19	2	10/31/17 17:13	10/26/17	
2,4,6-Trichlorophenol	19 U	19	2	10/31/17 17:13	10/26/17	
2,4-Dichlorophenol	19 U	19	2	10/31/17 17:13	10/26/17	
2,4-Dimethylphenol	19 U	19	2	10/31/17 17:13	10/26/17	
2,4-Dinitrophenol	94 U	94	2	10/31/17 17:13	10/26/17	
2,4-Dinitrotoluene	19 U	19	2	10/31/17 17:13	10/26/17	
2,6-Dinitrotoluene	19 U	19	2	10/31/17 17:13	10/26/17	
2-Chloronaphthalene	19 U	19	2	10/31/17 17:13	10/26/17	
2-Chlorophenol	19 U	19	2	10/31/17 17:13	10/26/17	
2-Methylnaphthalene	19 U	19	2	10/31/17 17:13	10/26/17	
2-Methylphenol	19 U	19	2	10/31/17 17:13	10/26/17	
2-Nitroaniline	94 U	94	2	10/31/17 17:13	10/26/17	
2-Nitrophenol	19 U	19	2	10/31/17 17:13	10/26/17	
3,3'-Dichlorobenzidine	19 U	19	2	10/31/17 17:13	10/26/17	
3- and 4-Methylphenol Coelution	19 U	19	2	10/31/17 17:13	10/26/17	
3-Nitroaniline	94 U	94	2	10/31/17 17:13	10/26/17	
4,6-Dinitro-2-methylphenol	94 U	94	2	10/31/17 17:13	10/26/17	
4-Bromophenyl Phenyl Ether	19 U	19	2	10/31/17 17:13	10/26/17	
4-Chloro-3-methylphenol	19 U	19	2	10/31/17 17:13	10/26/17	
4-Chloroaniline	19 U	19	2	10/31/17 17:13	10/26/17	
4-Chlorophenyl Phenyl Ether	19 U	19	2	10/31/17 17:13	10/26/17	
4-Nitroaniline	94 U	94	2	10/31/17 17:13	10/26/17	
4-Nitrophenol	94 U	94	2	10/31/17 17:13	10/26/17	
Acenaphthene	19 U	19	2	10/31/17 17:13	10/26/17	
Acenaphthylene	19 U	19	2	10/31/17 17:13	10/26/17	
Anthracene	19 U	19	2	10/31/17 17:13	10/26/17	
Benz(a)anthracene	**60**	19	2	10/31/17 17:13	10/26/17	
Benzo(a)pyrene	**80**	19	2	10/31/17 17:13	10/26/17	
Benzo(b)fluoranthene	**97**	19	2	10/31/17 17:13	10/26/17	
Benzo(g,h,i)perylene	**66**	19	2	10/31/17 17:13	10/26/17	
Benzo(k)fluoranthene	**36**	19	2	10/31/17 17:13	10/26/17	
Benzyl Alcohol	19 U	19	2	10/31/17 17:13	10/26/17	
2,2'-Oxybis(1-chloropropane)	19 U	19	2	10/31/17 17:13	10/26/17	
Bis(2-chloroethoxy)methane	19 U	19	2	10/31/17 17:13	10/26/17	
Bis(2-chloroethyl) Ether	19 U	19	2	10/31/17 17:13	10/26/17	
Bis(2-ethylhexyl) Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Butyl Benzyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Carbazole	19 U	19	2	10/31/17 17:13	10/26/17	
Chrysene	**65**	19	2	10/31/17 17:13	10/26/17	

Client:	The LiRo Group	**Service Request:**	R1710113
Project:	City of Buffalo - Franczyk Park Site/17-039-1144	**Date Collected:**	10/25/17 09:00
Sample Matrix:	Water	**Date Received:**	10/25/17 12:35
Sample Name:	MW-8	**Units:**	ug/L
Lab Code:	R1710113-006	**Basis:**	NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
Di-n-butyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Di-n-octyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Dibenz(a,h)anthracene	19 U	19	2	10/31/17 17:13	10/26/17	
Dibenzofuran	19 U	19	2	10/31/17 17:13	10/26/17	
Diethyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Dimethyl Phthalate	19 U	19	2	10/31/17 17:13	10/26/17	
Fluoranthene	**120**	19	2	10/31/17 17:13	10/26/17	
Fluorene	19 U	19	2	10/31/17 17:13	10/26/17	
Hexachlorobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
Hexachlorobutadiene	19 U	19	2	10/31/17 17:13	10/26/17	
Hexachlorocyclopentadiene	19 U	19	2	10/31/17 17:13	10/26/17	
Hexachloroethane	19 U	19	2	10/31/17 17:13	10/26/17	
Indeno(1,2,3-cd)pyrene	**62**	19	2	10/31/17 17:13	10/26/17	
Isophorone	19 U	19	2	10/31/17 17:13	10/26/17	
N-Nitrosodi-n-propylamine	19 U	19	2	10/31/17 17:13	10/26/17	
N-Nitrosodimethylamine	19 U	19	2	10/31/17 17:13	10/26/17	
N-Nitrosodiphenylamine	19 U	19	2	10/31/17 17:13	10/26/17	
Naphthalene	19 U	19	2	10/31/17 17:13	10/26/17	
Nitrobenzene	19 U	19	2	10/31/17 17:13	10/26/17	
Pentachlorophenol (PCP)	94 U	94	2	10/31/17 17:13	10/26/17	
Phenanthrene	**52**	19	2	10/31/17 17:13	10/26/17	
Phenol	19 U	19	2	10/31/17 17:13	10/26/17	
Pyrene	**100**	19	2	10/31/17 17:13	10/26/17	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	72	35 - 141	10/31/17 17:13	
2-Fluorobiphenyl	60	31 - 118	10/31/17 17:13	
2-Fluorophenol	41	10 - 105	10/31/17 17:13	
Nitrobenzene-d5	75	31 - 110	10/31/17 17:13	
Phenol-d6	28	10 - 107	10/31/17 17:13	
p-Terphenyl-d14	45	30 - 133	10/31/17 17:13	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM252.D
Acq On : 30 Oct 2017 4:09 pm
Operator : J.Misiurewicz
Sample : R1710113-001
Misc : 301663 8270D
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 31 07:52:21 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

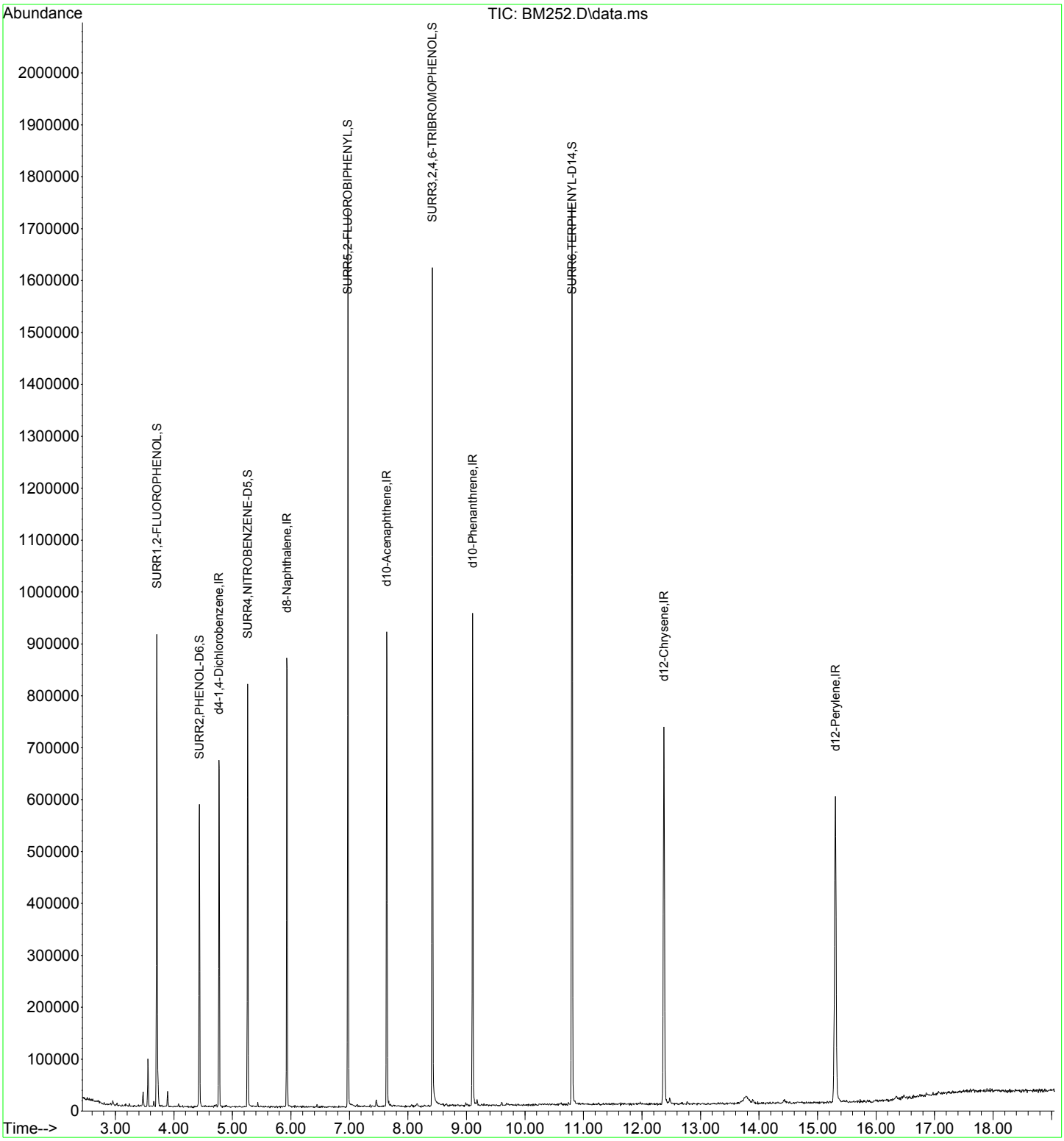
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.769	152	98500	40.00	ppm	0.00
33) d8-Naphthalene	5.929	136	371689	40.00	ppm	0.00
57) d10-Acenaphthene	7.635	164	189539	40.00	ppm	0.00
91) d10-Phenanthrene	9.106	188	333594	40.00	ppm	0.00
117) d12-Chrysene	12.374	240	350902	40.00	ppm	0.00
135) d12-Perylene	15.305	264	383386	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	242849	73.63	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 36.81%			
12) SURR2,PHENOL-D6	4.437	99	192451	49.40	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 24.70%			
34) SURR4,NITROBENZENE-D5	5.261	82	240493	71.88	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 71.88%			
63) SURR5,2-FLUOROBIPHENYL	6.972	172	515038	71.86	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 71.86%			
88) SURR3,2,4,6-TRIBROMOPH...	8.416	330	191107	150.80	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 75.40%			
124) SURR6,TERPHENYL-D14	10.802	244	616141	77.24	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 77.24%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM252.D
Acq On : 30 Oct 2017 4:09 pm
Operator : J.Misiurewicz
Sample : R1710113-001
Misc : 301663 8270D
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 31 07:52:21 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM253.D
Acq On : 30 Oct 2017 4:37 pm
Operator : J.Misiurewicz
Sample : R1710113-002
Misc : 301663 8270D
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 31 07:52:27 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.769	152	91970	40.00	ppm	0.00
33) d8-Naphthalene	5.929	136	344918	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	177018	40.00	ppm	0.00
91) d10-Phenanthrene	9.106	188	324925	40.00	ppm	0.00
117) d12-Chrysene	12.374	240	330171	40.00	ppm	0.00
135) d12-Perylene	15.306	264	345718	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	136832	44.43	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 22.22%			
12) SURR2,PHENOL-D6	4.432	99	103430	28.43	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 14.22%			
34) SURR4,NITROBENZENE-D5	5.261	82	135414	43.61	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 43.61%			
63) SURR5,2-FLUOROBIPHENYL	6.972	172	289423	43.24	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 43.24%			
88) SURR3,2,4,6-TRIBROMOPH...	8.416	330	113058	95.52	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 47.76%			
124) SURR6,TERPHENYL-D14	10.802	244	355638	47.38	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 47.38%			

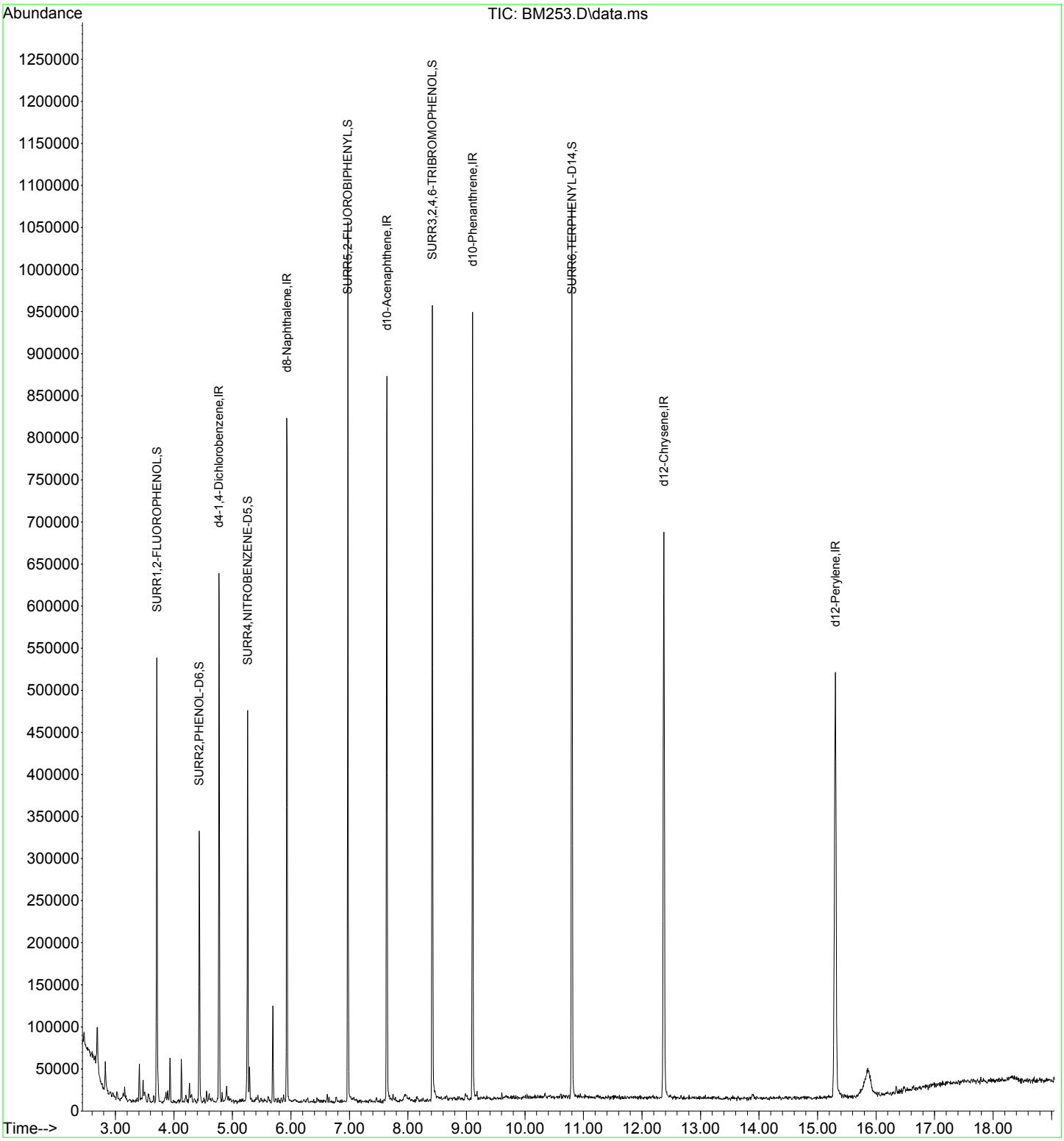
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM253.D
Acq On : 30 Oct 2017 4:37 pm
Operator : J.Misiurewicz
Sample : R1710113-002
Misc : 301663 8270D
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 31 07:52:27 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM254.D
Acq On : 30 Oct 2017 5:05 pm
Operator : J.Misiurewicz
Sample : R1710113-004
Misc : 301663 8270D
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 31 07:52:33 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.769	152	87885	40.00	ppm	0.00
33) d8-Naphthalene	5.929	136	325999	40.00	ppm	0.00
57) d10-Acenaphthene	7.636	164	163079	40.00	ppm	0.00
91) d10-Phenanthrene	9.106	188	289294	40.00	ppm	0.00
117) d12-Chrysene	12.374	240	314783	40.00	ppm	0.00
135) d12-Perylene	15.306	264	321959	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	227072	77.17	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 38.59%			
12) SURR2,PHENOL-D6	4.437	99	187319	53.89	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 26.95%			
34) SURR4,NITROBENZENE-D5	5.261	82	207827	70.82	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 70.82%			
63) SURR5,2-FLUOROBIPHENYL	6.972	172	439902	71.33	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 71.33%			
88) SURR3,2,4,6-TRIBROMOPH...	8.416	330	167432	153.55	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 76.78%			
124) SURR6,TERPHENYL-D14	10.802	244	504680	70.53	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 70.53%			

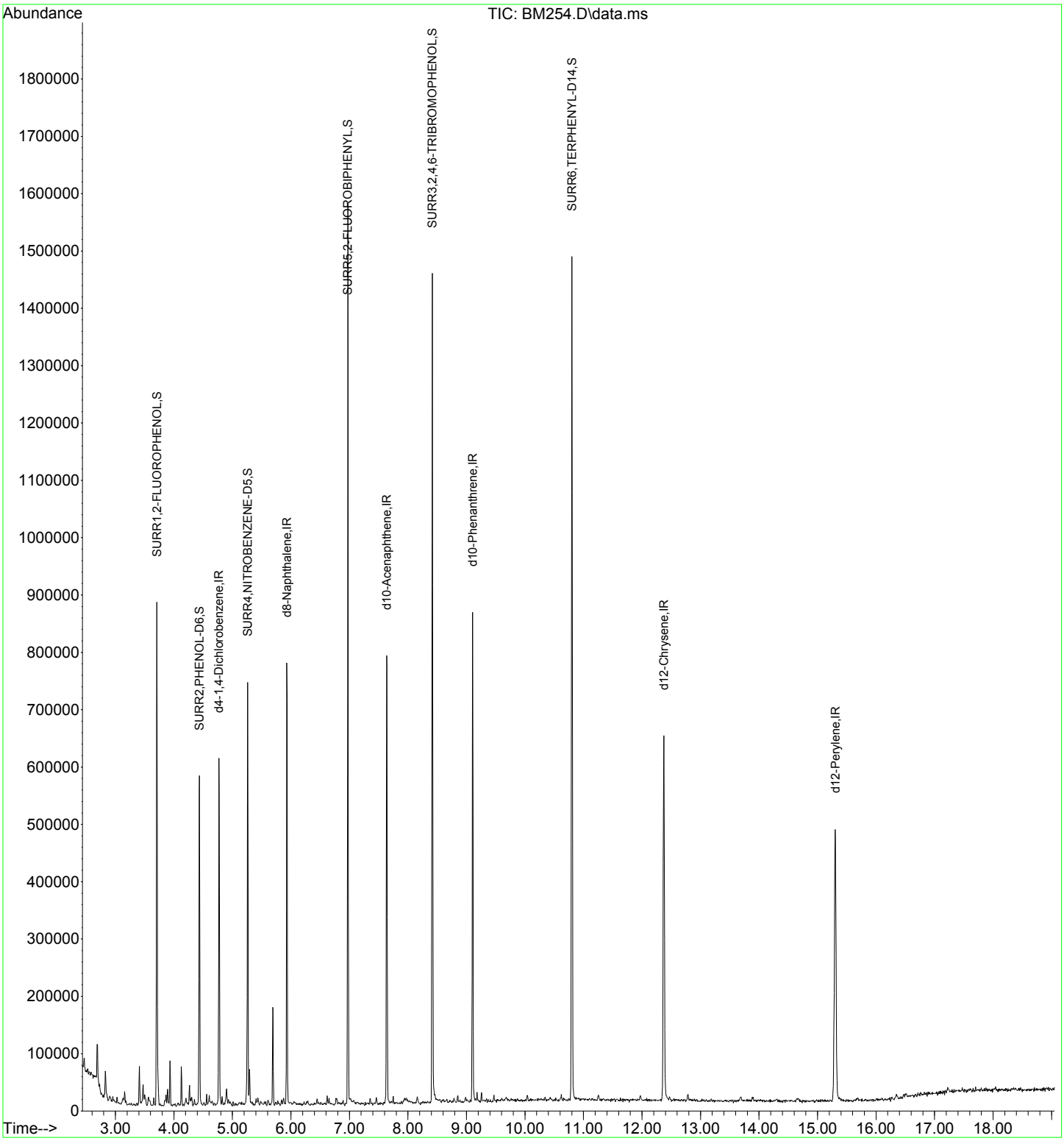
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/31/17
2nd 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM254.D
Acq On : 30 Oct 2017 5:05 pm
Operator : J.Misiurewicz
Sample : R1710113-004
Misc : 301663 8270D
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 31 07:52:33 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM290.D
Acq On : 31 Oct 2017 5:13 pm
Operator : J.Misiurewicz
Sample : R1710113-006|2.0
Misc : 301663 8270D
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 10:16:43 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

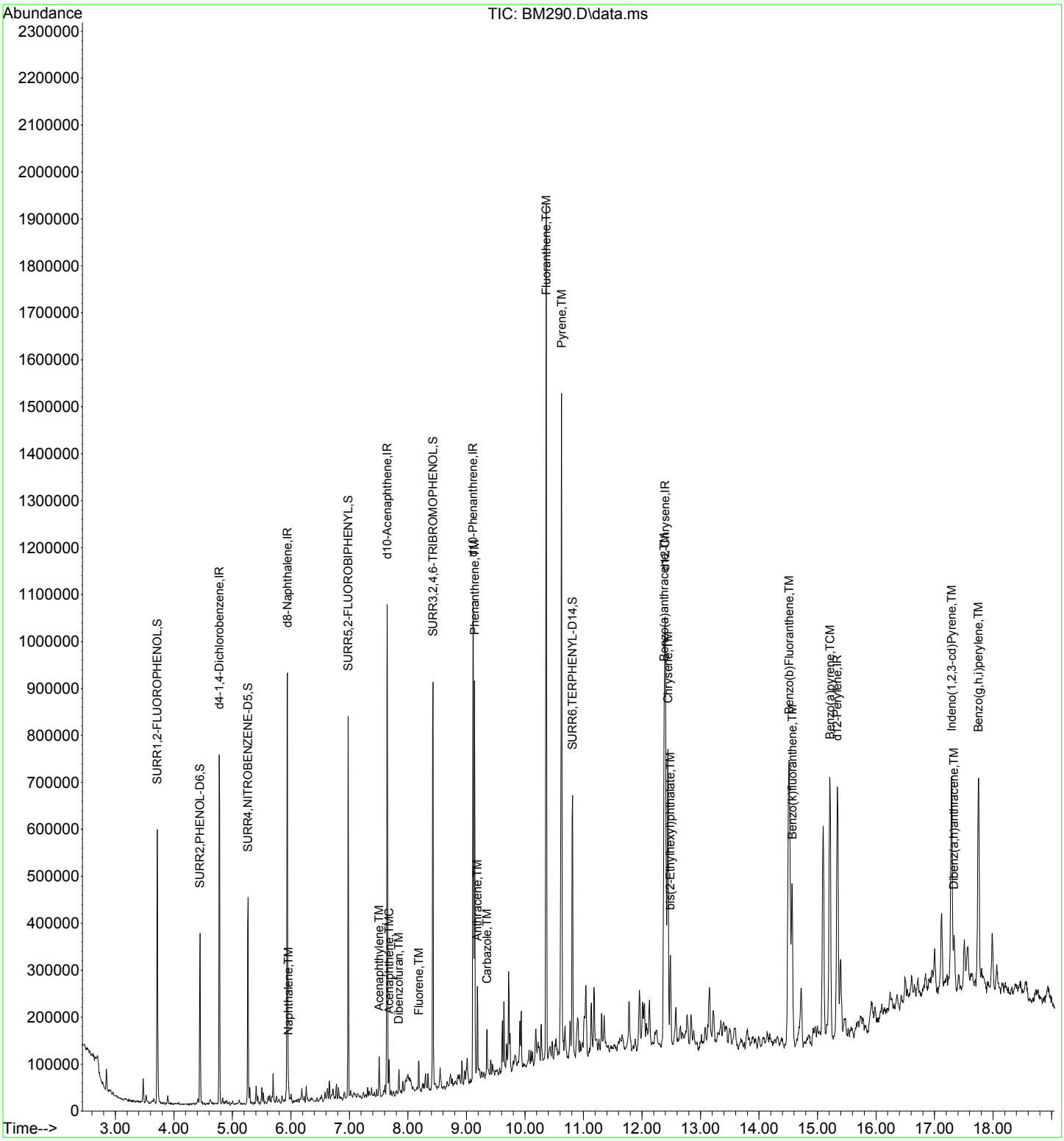
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	106983	40.00	ppm	0.00
33) d8-Naphthalene	5.940	136	399499	40.00	ppm	0.00
57) d10-Acenaphthene	7.646	164	205928	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	381554	40.00	ppm	0.00
117) d12-Chrysene	12.396	240	370659	40.00	ppm	0.01
135) d12-Perylene	15.338	264	372709	40.00	ppm	0.03
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	146952	41.02	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 20.51%			
12) SURR2,PHENOL-D6	4.448	99	120254	28.42	ppm	0.01
Spiked Amount 200.000	Range 10 - 107		Recovery = 14.21%			
34) SURR4,NITROBENZENE-D5	5.266	82	134932	37.52	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 37.52%			
63) SURR5,2-FLUOROBIPHENYL	6.978	172	231752	29.76	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 29.76%#			
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	99596	72.33	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 36.16%			
124) SURR6,TERPHENYL-D14	10.813	244	189028	22.43	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 22.43%#			
Target Compounds						Qvalue
45) Naphthalene	5.956	128	12436	1.225	ppm	96
70) Acenaphthylene	7.507	152	36399	3.478	ppm	97
73) Acenaphthene	7.678	153	18763	2.694	ppm	85
76) Dibenzofuran	7.844	168	16509	1.785	ppm	93
83) Fluorene	8.187	166	20284	2.684	ppm	94
111) Phenanthrene	9.139	178	289521	27.780	ppm	99
112) Anthracene	9.187	178	71285	6.897	ppm	96
113) Carbazole	9.353	167	41632	4.090	ppm	93
116) Fluoranthene	10.364	202	703343	62.337	ppm	98
123) Pyrene	10.626	202	631394	55.433	ppm	99
132) Benzo(a)anthracene	12.380	228	346472	31.601	ppm	97
133) Chrysene	12.444	228	364199	34.514	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.487	149	67071	8.163	ppm	99
138) Benzo(b)Fluoranthene	14.514	252	582745	51.553	ppm	96
139) Benzo(k)fluoranthene	14.568	252	205335	18.862	ppm	94
140) Benzo(a)pyrene	15.215	252	417650	42.150	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.290	276	319976	32.748	ppm	98
143) Dibenz(a,h)anthracene	17.333	278	80359	7.737	ppm	94
144) Benzo(g,h,i)perylene	17.750	276	332547	34.853	ppm	95

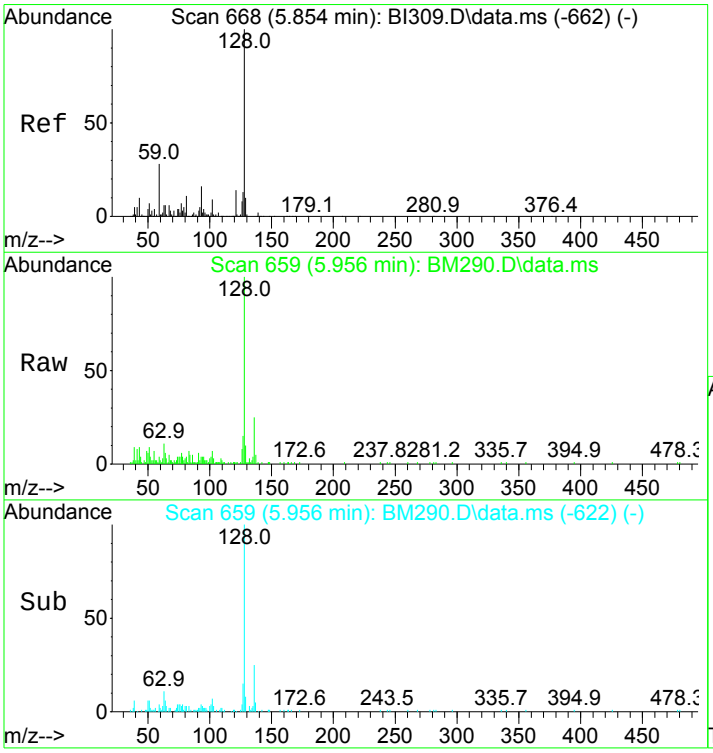
(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 11/01/17
2nd 11/01/17

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM290.D
Acq On : 31 Oct 2017 5:13 pm
Operator : J.Misiurewicz
Sample : R1710113-006|2.0
Misc : 301663 8270D
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 01 10:16:43 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

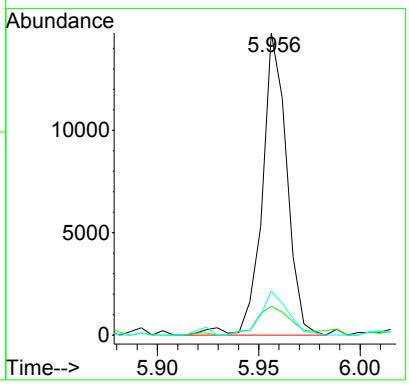


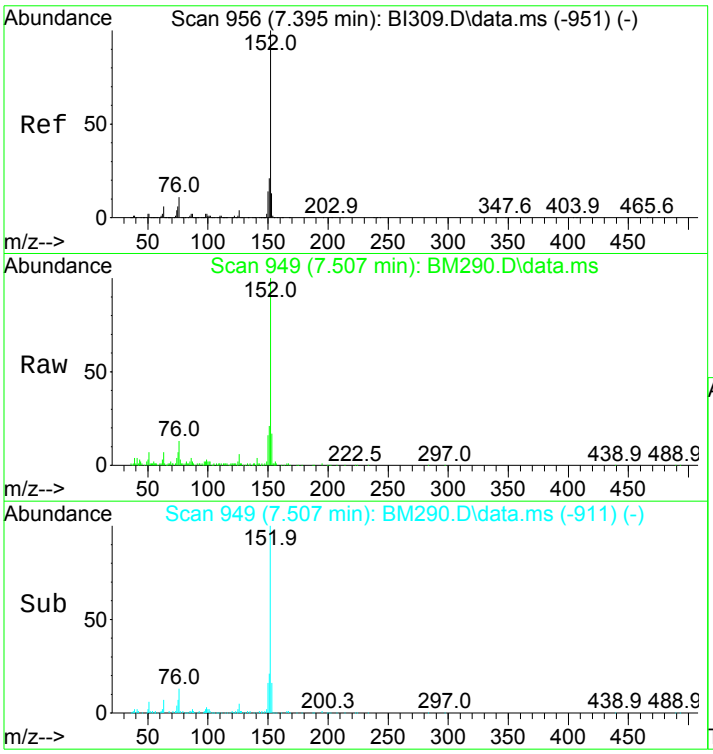


#45
Naphthalene
Concen: 1.22 ppm
RT: 5.956 min Scan# 659
Delta R.T. -0.000 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:128 Resp: 12436

Ion	Ratio	Lower	Upper
128	100		
129	8.8	0.0	31.0
127	14.5	0.0	33.4

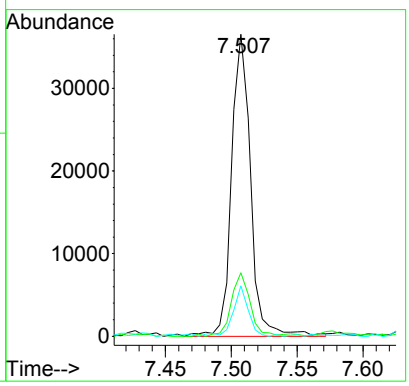


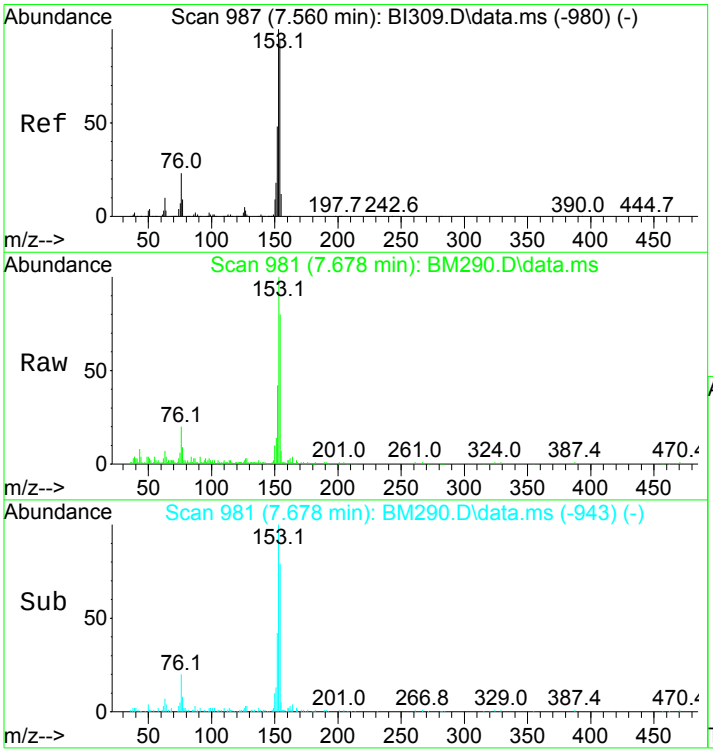


#70
Acenaphthylene
Concen: 3.48 ppm
RT: 7.507 min Scan# 949
Delta R.T. 0.002 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:152 Resp: 36399

Ion	Ratio	Lower	Upper
152	100		
151	20.4	0.4	40.4
153	16.3	0.0	33.3

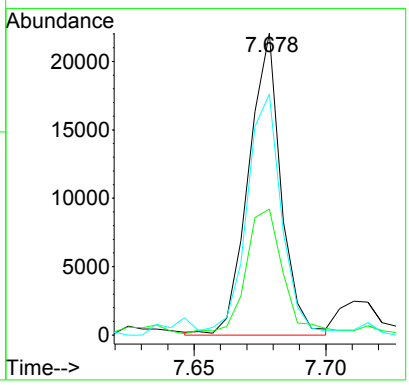


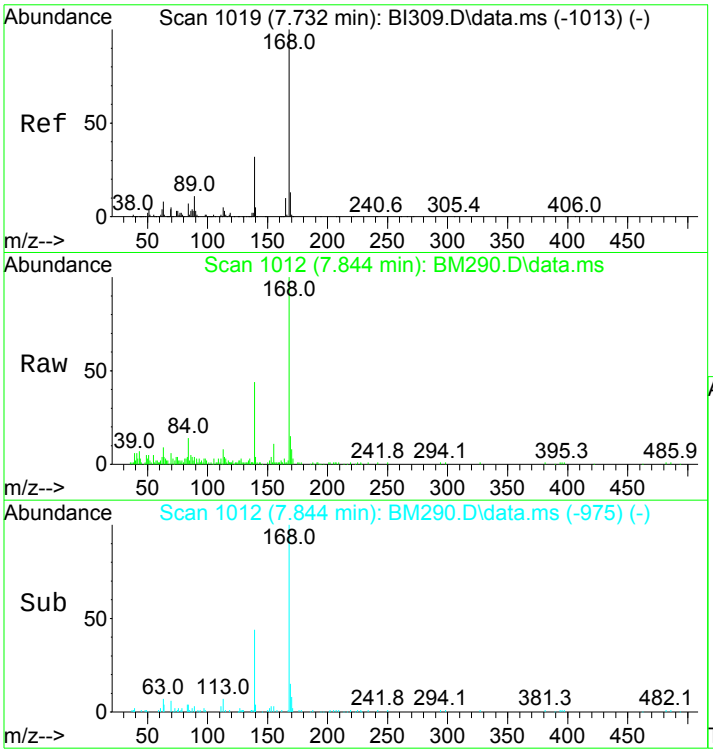


#73
Acenaphthene
Concen: 2.69 ppm
RT: 7.678 min Scan# 981
Delta R.T. 0.003 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:153 Resp: 18763

Ion	Ratio	Lower	Upper
153	100		
152	41.0	28.5	68.5
154	77.4	74.1	114.1

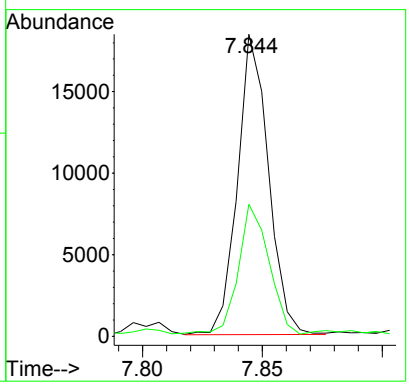


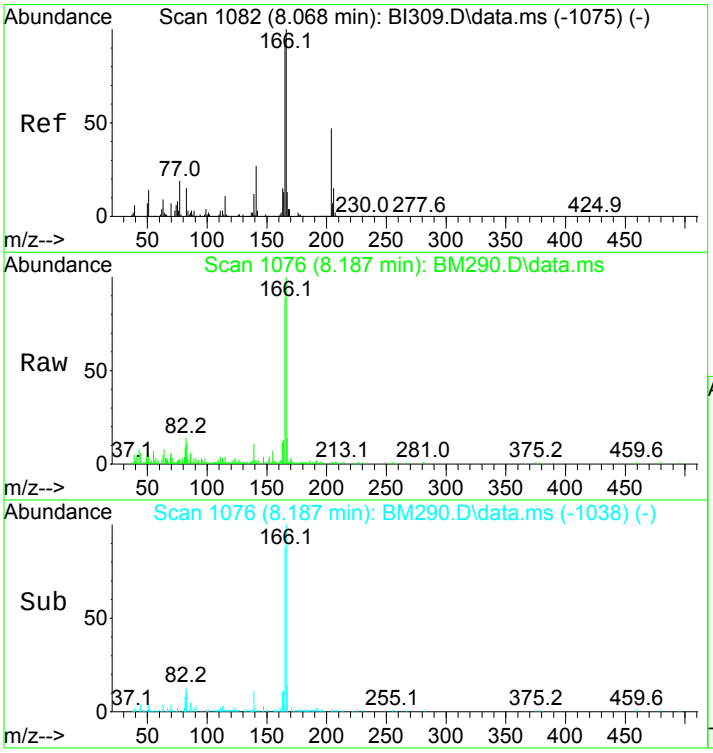


#76
Dibenzofuran
Concen: 1.79 ppm
RT: 7.844 min Scan# 1012
Delta R.T. -0.000 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:168 Resp: 16509

Ion	Ratio	Lower	Upper
168	100		
139	42.7	18.7	58.7

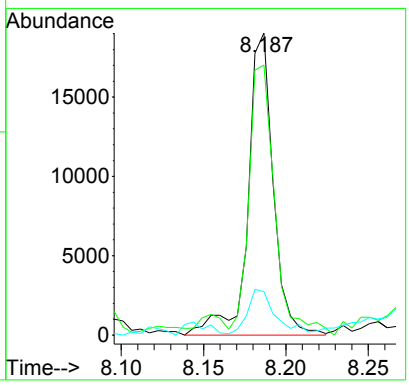


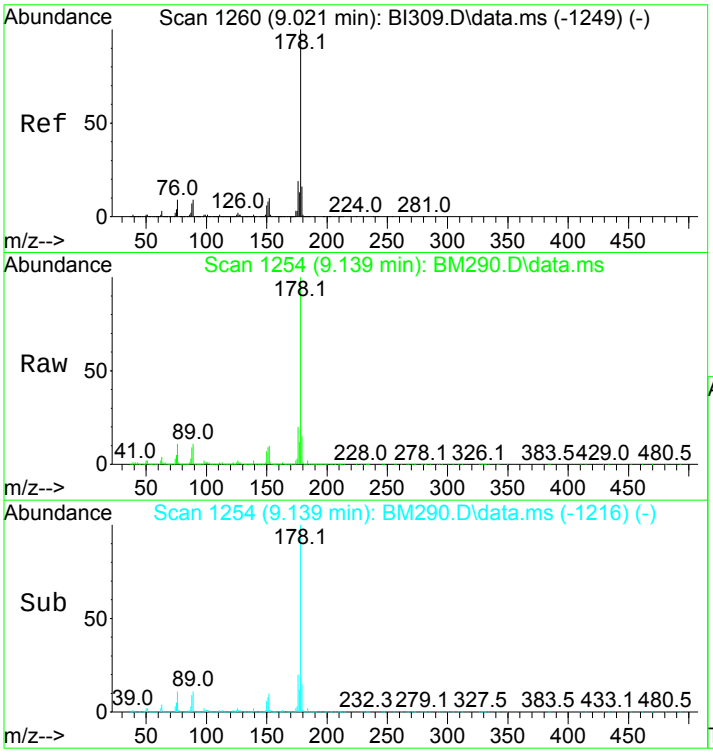


#83
Fluorene
Concen: 2.68 ppm
RT: 8.187 min Scan# 1076
Delta R.T. 0.003 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:166 Resp: 20284

Ion	Ratio	Lower	Upper
166	100		
165	87.4	63.1	123.1
167	11.0	0.0	43.6

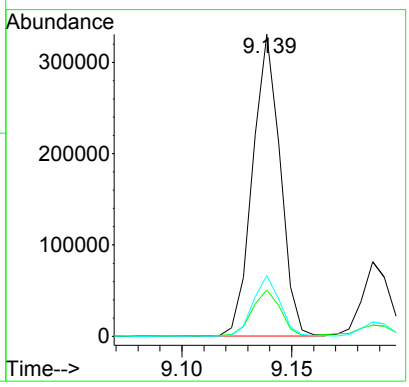


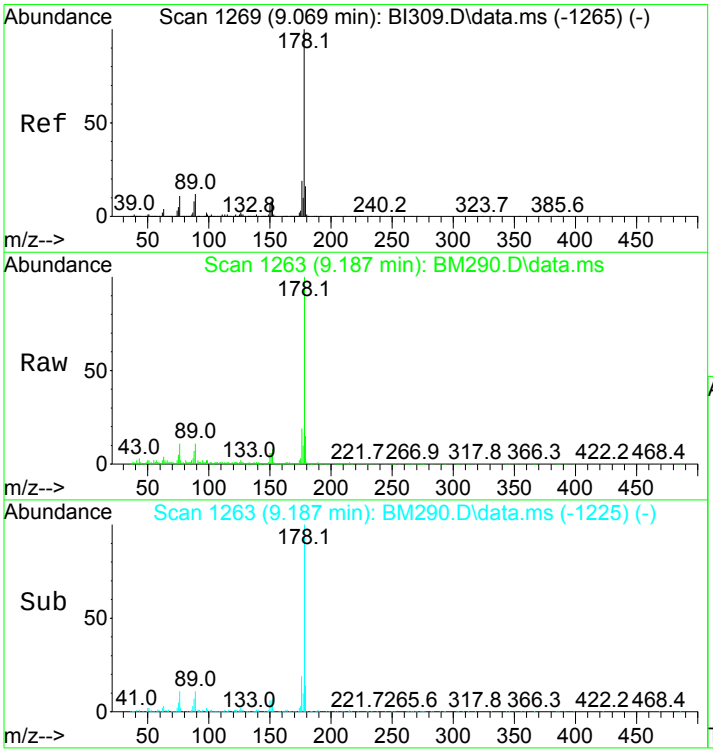


#111
Phenanthrene
Concen: 27.78 ppm
RT: 9.139 min Scan# 1254
Delta R.T. 0.003 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:178 Resp: 289521

Ion	Ratio	Lower	Upper
178	100		
179	14.9	0.0	34.5
176	20.1	0.0	39.5

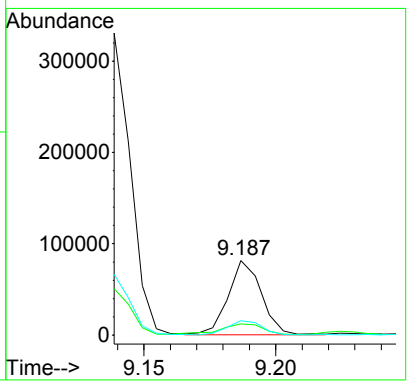


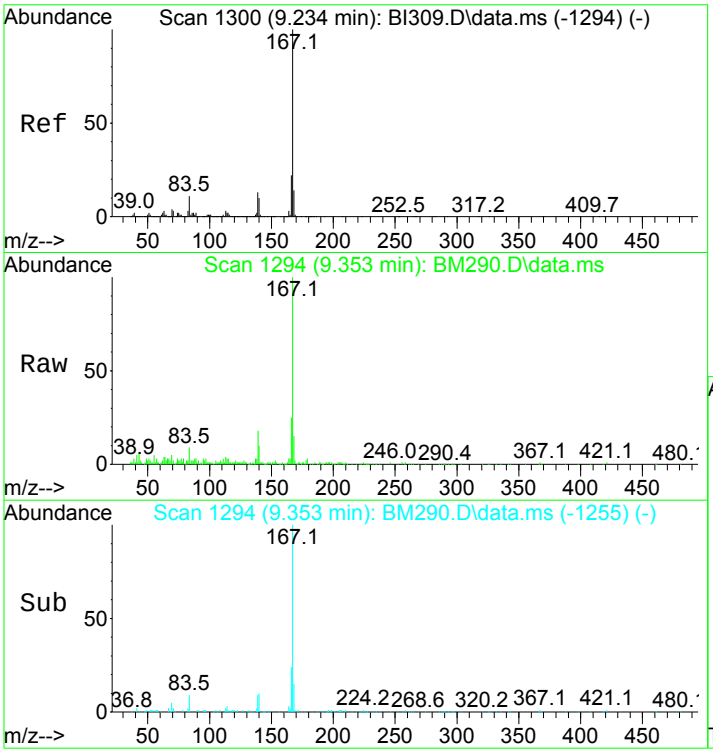


#112
Anthracene
Concen: 6.90 ppm
RT: 9.187 min Scan# 1263
Delta R.T. 0.001 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:178 Resp: 71285

Ion	Ratio	Lower	Upper
178	100		
179	11.9	0.0	35.2
176	18.7	0.0	38.7

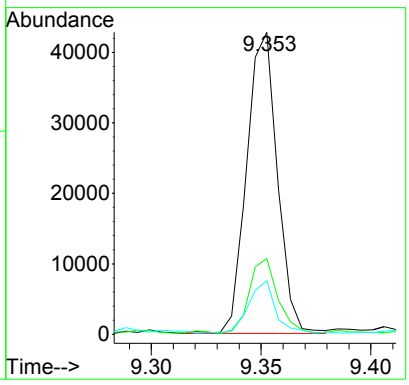


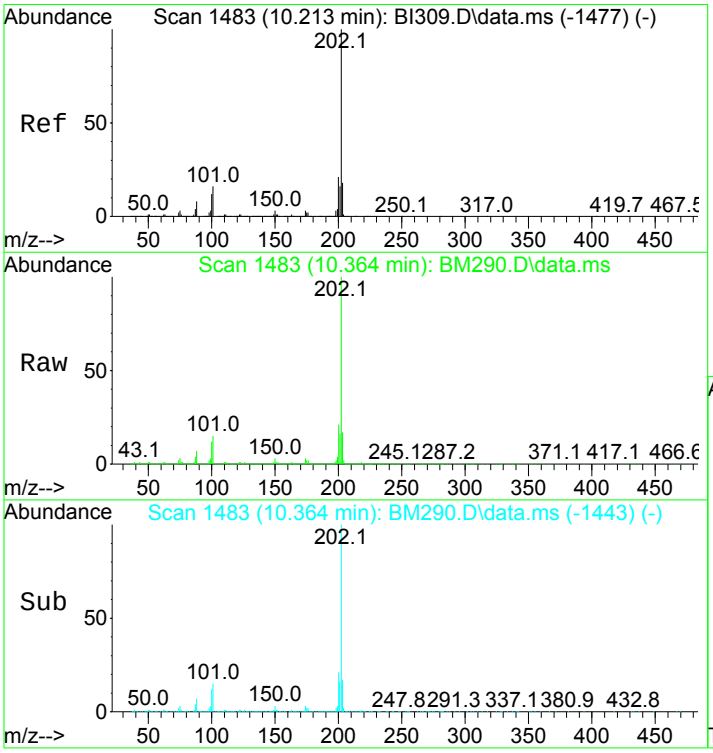


#113
Carbazole
Concen: 4.09 ppm
RT: 9.353 min Scan# 1294
Delta R.T. 0.007 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:167 Resp: 41632

Ion	Ratio	Lower	Upper
167	100		
166	24.8	2.2	42.2
139	17.1	0.0	33.2

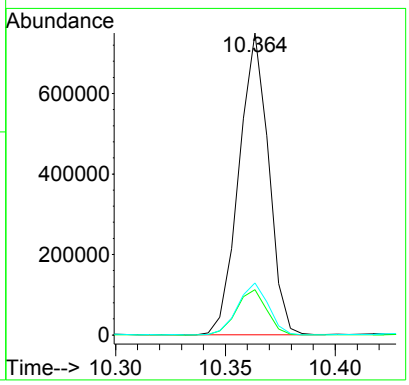


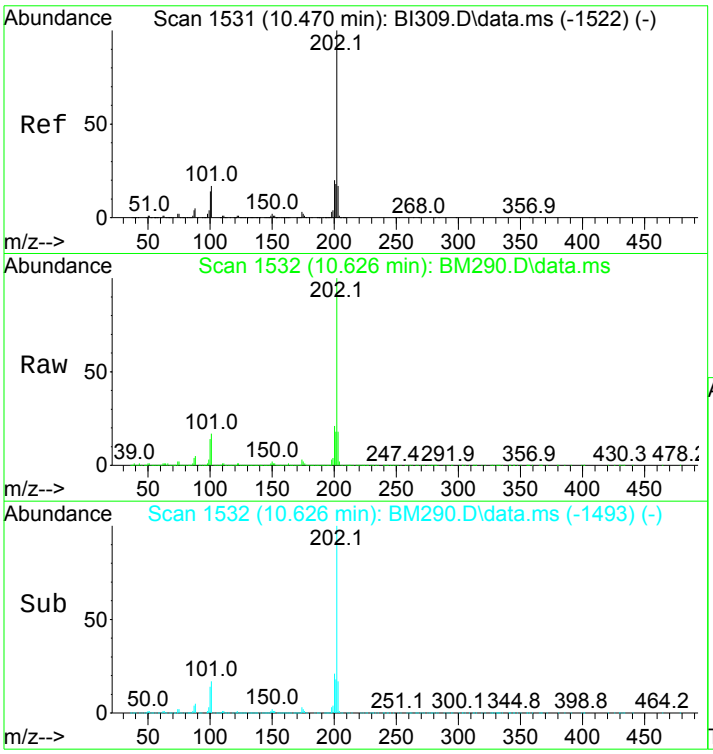


#116
Fluoranthene
Concen: 62.34 ppm
RT: 10.364 min Scan# 1483
Delta R.T. 0.014 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:202 Resp: 703343

Ion	Ratio	Lower	Upper
202	100		
101	15.0	0.0	33.9
203	17.2	0.0	37.5

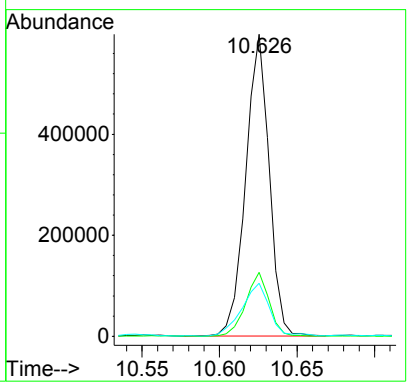


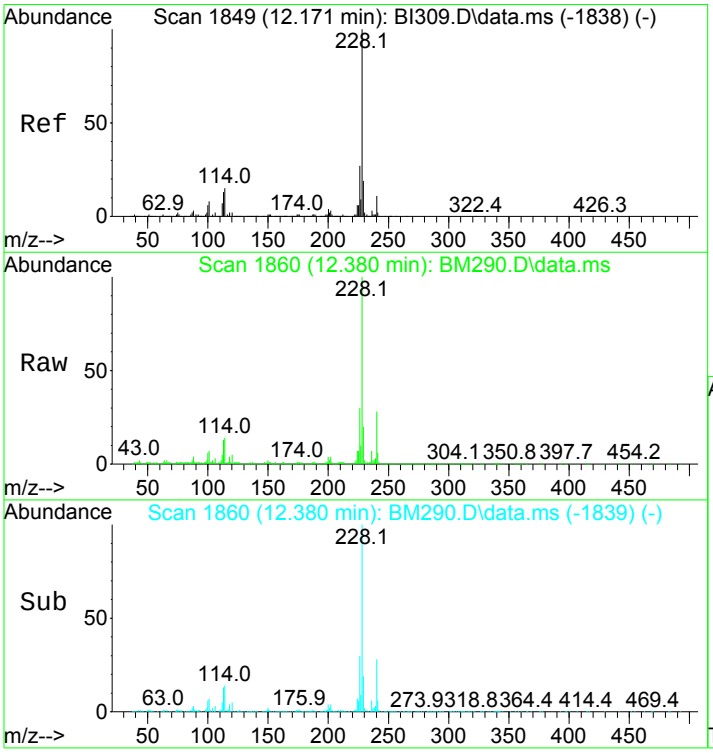


#123
Pyrene
Concen: 55.43 ppm
RT: 10.626 min Scan# 1532
Delta R.T. 0.010 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:202 Resp: 631394

Ion	Ratio	Lower	Upper
202	100		
200	21.1	0.8	40.8
203	17.5	0.0	38.1

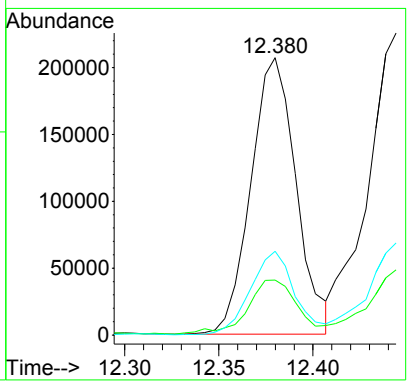


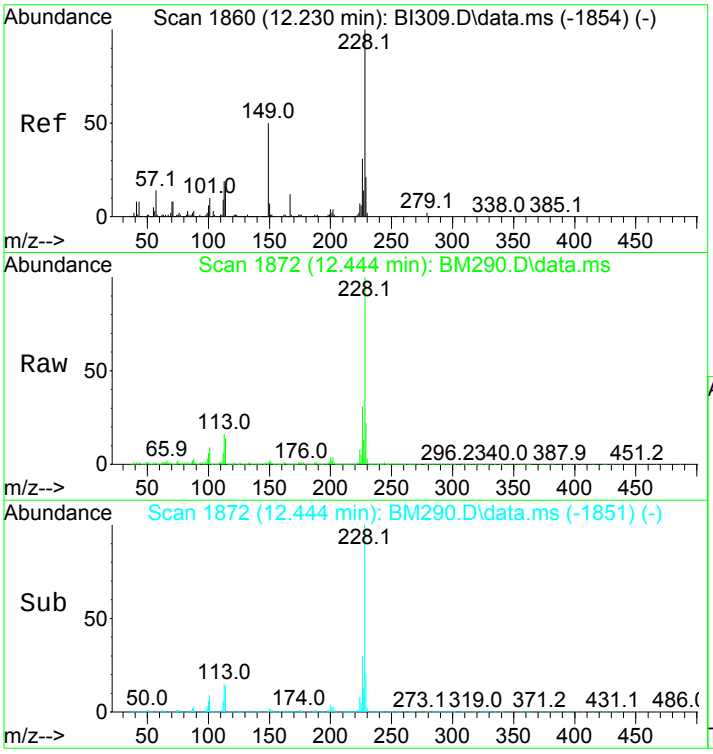


#132
Benzo(a)anthracene
Concen: 31.60 ppm
RT: 12.380 min Scan# 1860
Delta R.T. 0.013 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:228 Resp: 346472

Ion	Ratio	Lower	Upper
228	100		
229	18.9	0.0	39.1
226	29.9	7.2	47.2

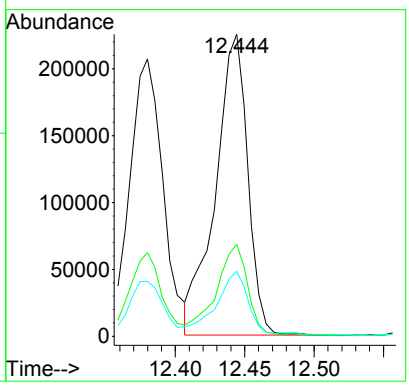


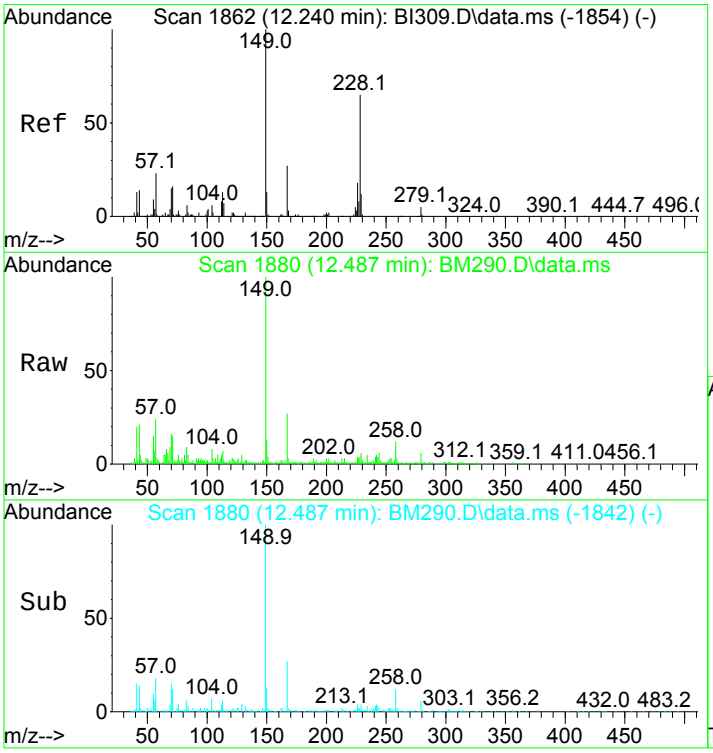


#133
Chrysene
Concen: 34.51 ppm
RT: 12.444 min Scan# 1872
Delta R.T. 0.012 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:228 Resp: 364199

Ion	Ratio	Lower	Upper
228	100		
226	30.3	8.9	48.9
229	20.9	0.1	40.1

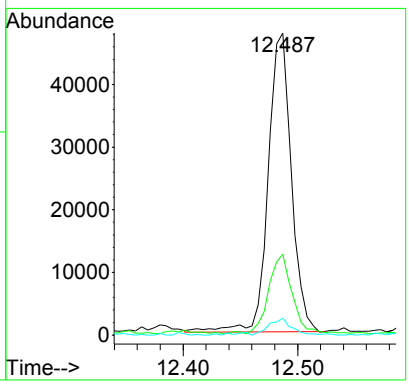


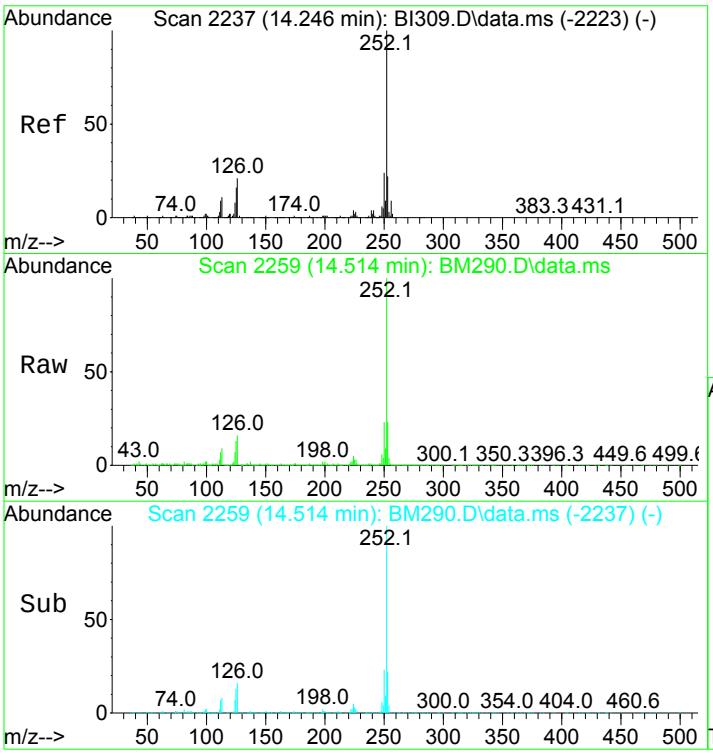


#134
bis(2-Ethylhexyl)phthalate
Concen: 8.16 ppm
RT: 12.487 min Scan# 1880
Delta R.T. 0.005 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:149 Resp: 67071

Ion	Ratio	Lower	Upper
149	100		
167	25.7	5.6	45.6
279	5.3	0.0	25.9

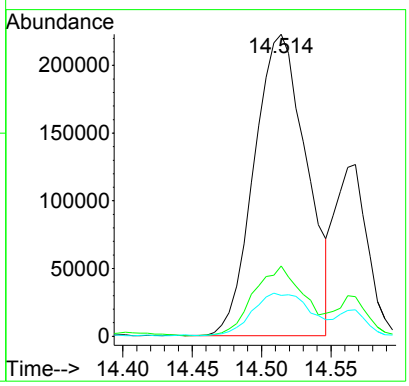


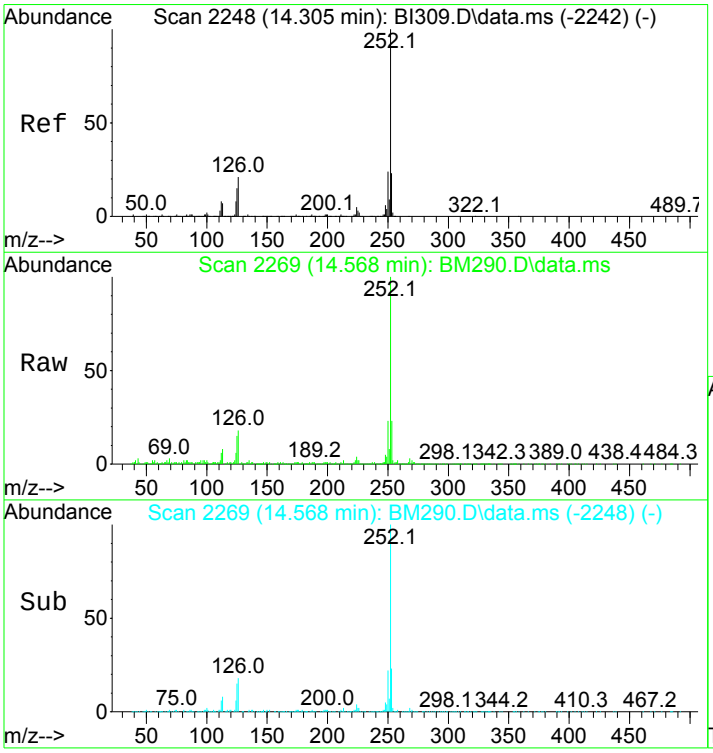


#138
Benzo(b)Fluoranthene
Concen: 51.55 ppm
RT: 14.514 min Scan# 2259
Delta R.T. 0.018 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:252 Resp: 582745

Ion	Ratio	Lower	Upper
252	100		
253	23.2	4.0	44.0
125	12.5	0.0	35.3

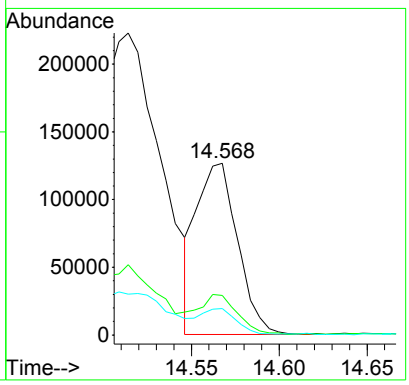


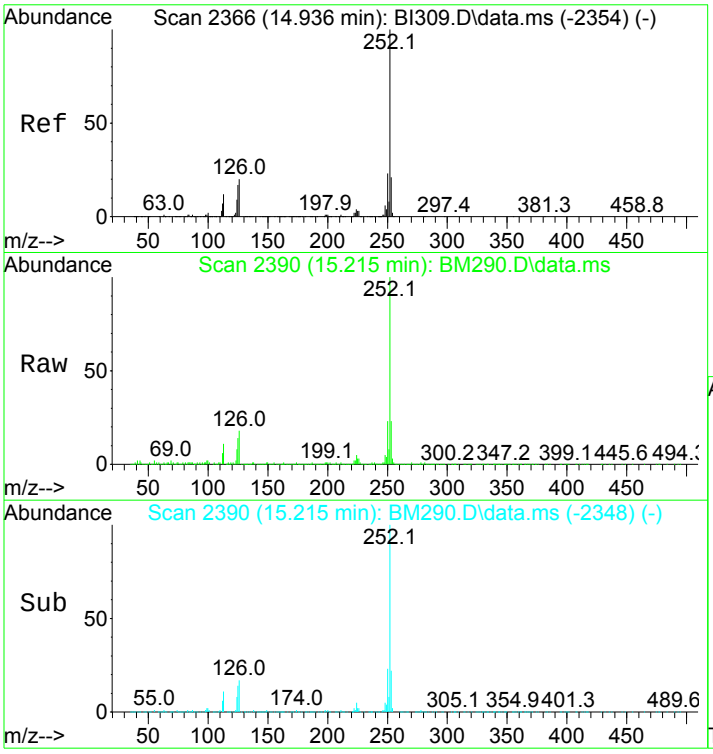


#139
Benzo(k)fluoranthene
Concen: 18.86 ppm
RT: 14.568 min Scan# 2269
Delta R.T. 0.014 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:252 Resp: 205335

Ion	Ratio	Lower	Upper
252	100		
253	22.7	0.1	40.1
125	14.7	0.0	31.8

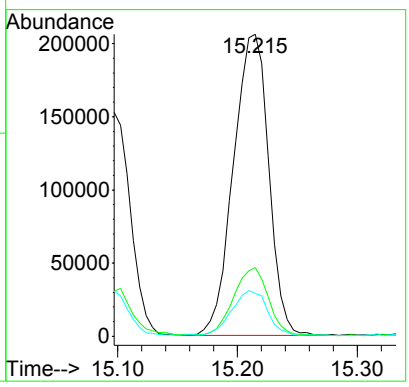


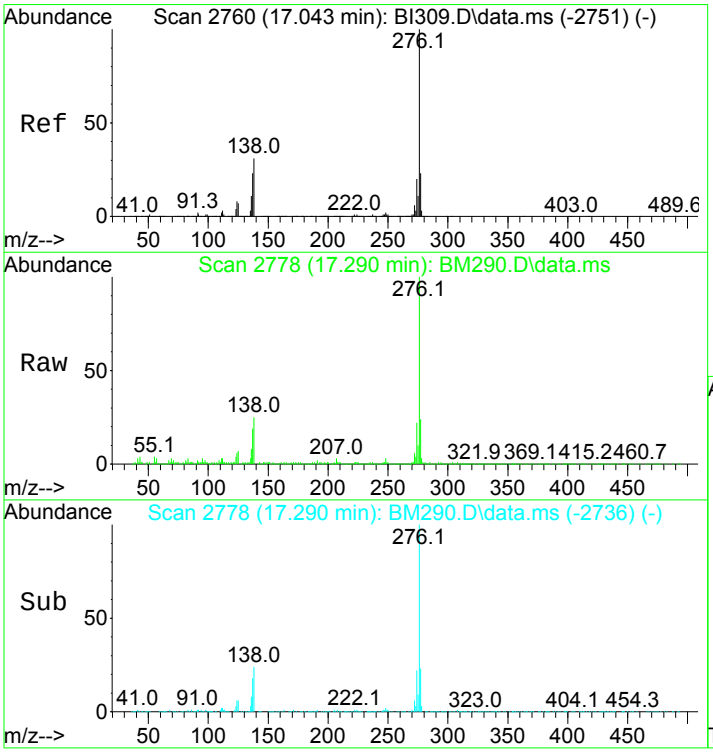


#140
Benzo(a)pyrene
Concen: 42.15 ppm
RT: 15.215 min Scan# 2390
Delta R.T. 0.026 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:252 Resp: 417650

Ion	Ratio	Lower	Upper
252	100		
253	22.3	1.1	41.1
125	13.8	0.0	33.8

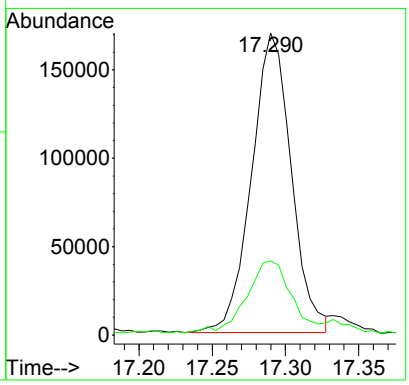


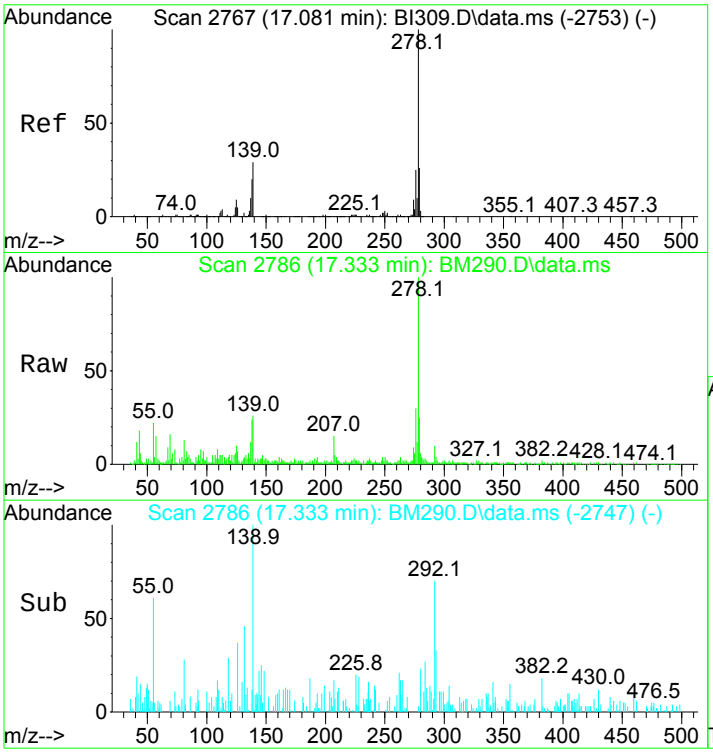


#142
Indeno(1,2,3-cd)Pyrene
Concen: 32.75 ppm
RT: 17.290 min Scan# 2778
Delta R.T. 0.024 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:276 Resp: 319976

Ion	Ratio	Lower	Upper
276	100		
138	23.0	2.3	42.3

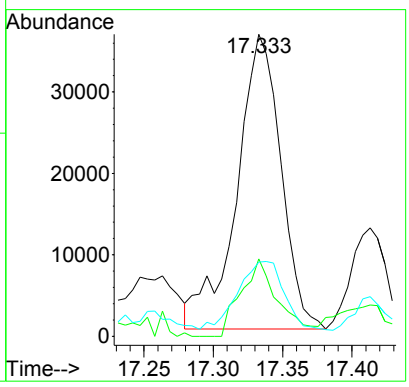


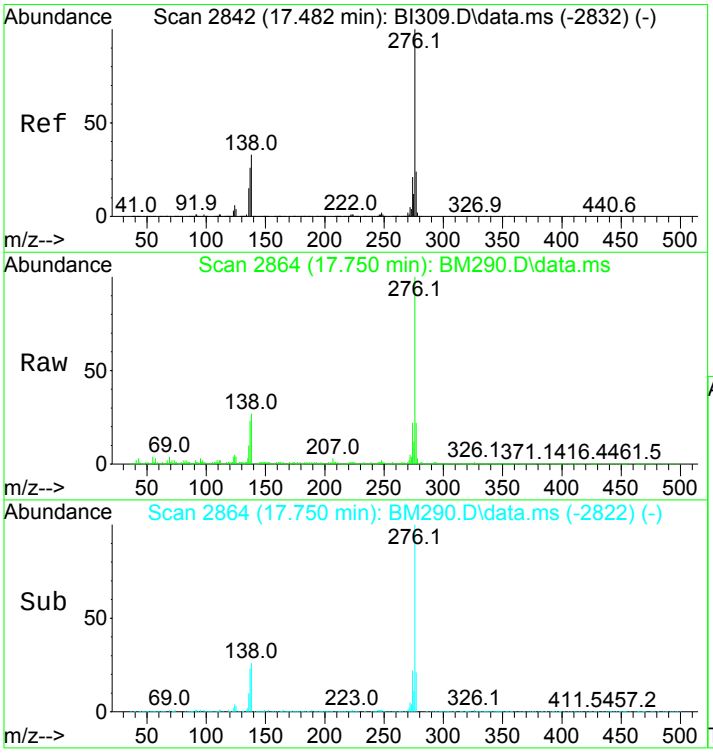


#143
Dibenz(a,h)anthracene
Concen: 7.74 ppm
RT: 17.333 min Scan# 2786
Delta R.T. 0.011 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:278 Resp: 80359

Ion	Ratio	Lower	Upper
278	100		
139	23.0	0.0	37.7
279	23.2	3.8	43.8

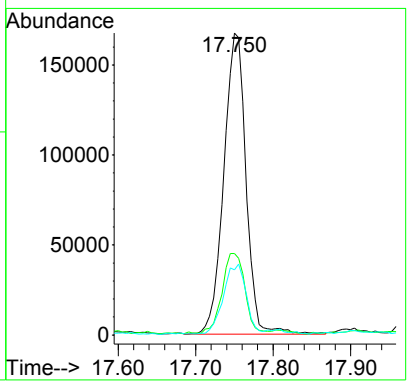




#144
Benzo(g,h,i)perylene
Concen: 34.85 ppm
RT: 17.750 min Scan# 2864
Delta R.T. 0.027 min
Lab File: BM290.D
Acq: 31 Oct 2017 5:13 pm

Tgt Ion:276 Resp: 332547

Ion	Ratio	Lower	Upper
276	100		
138	26.5	4.2	44.2
277	21.1	3.9	43.9



LSC Area Percent Report

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM241.D
Acq On : 30 Oct 2017 10:58 am
Operator : J.Misiurewicz
Sample : RQ1711100-01
Misc : 301663 8270D BLK
ALS Vial : 5 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 25000 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Title : 8270 BNA ANALYSIS

Signal : TIC: BM241.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.475	190	195	200	rVB2	25120	31404	1.95%	0.305%
2	3.710	234	239	247	rBV	871634	776130	48.29%	7.536%
3	4.437	370	375	381	rBV	560905	504665	31.40%	4.900%
4	4.774	433	438	442	rBV	553827	510816	31.78%	4.960%
5	5.261	524	529	533	rBV	682540	600717	37.38%	5.833%
6	5.930	650	654	659	rBV	721899	658593	40.98%	6.395%
7	6.973	845	849	853	rBV	1374501	1192652	74.21%	11.581%
8	7.641	969	974	982	rBV	765493	738379	45.94%	7.170%
9	8.417	1114	1119	1125	rBV	1254267	1132923	70.49%	11.001%
10	9.107	1243	1248	1255	rBV	832911	752186	46.80%	7.304%
11	10.802	1560	1565	1571	rBV	1482856	1607130	100.00%	15.605%
12	12.375	1851	1859	1874	rBV	564879	877006	54.57%	8.516%
13	15.306	2395	2407	2415	rBV	461562	915899	56.99%	8.894%

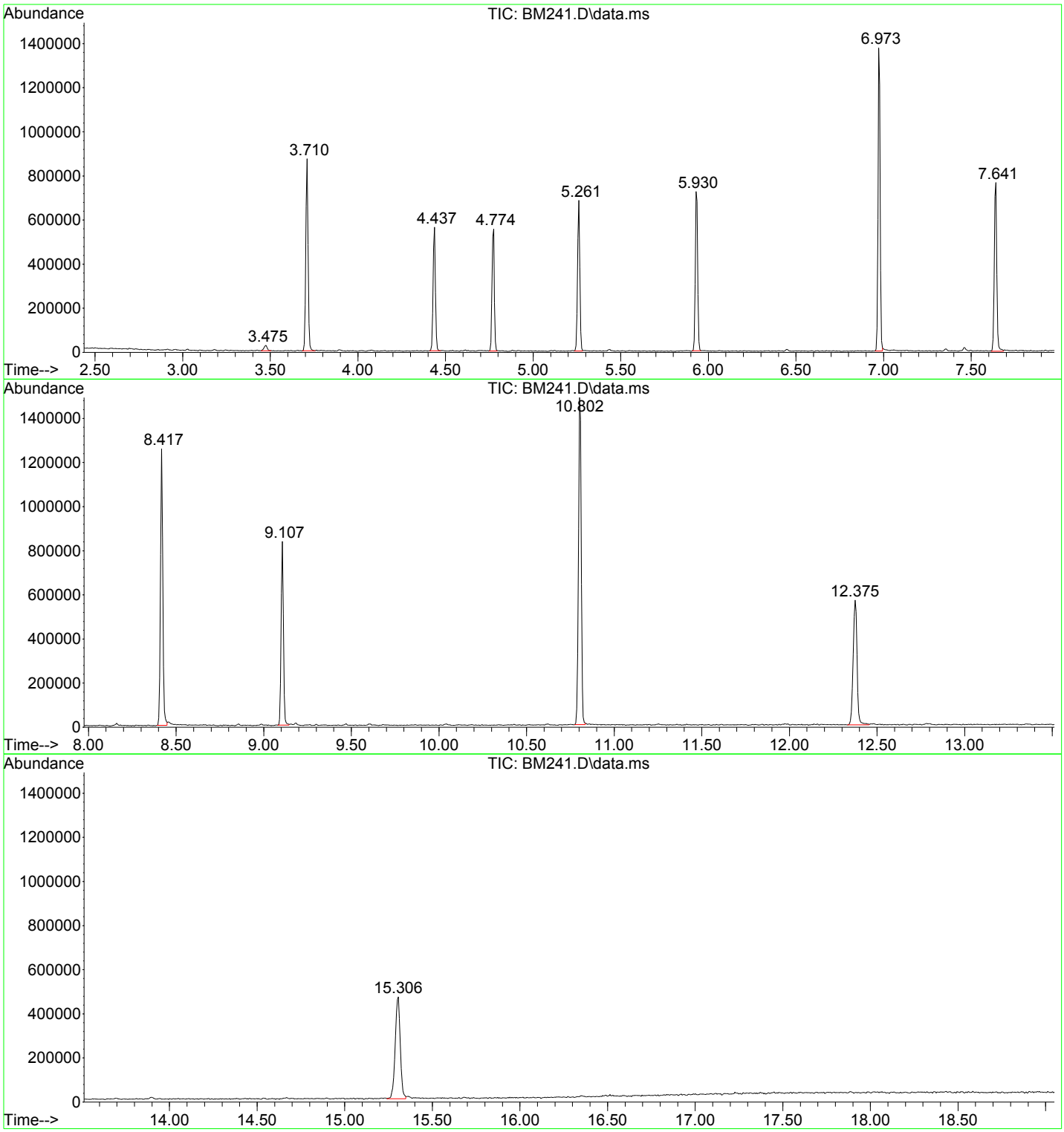
Sum of corrected areas: 10298500

1st 10/31/17
2nd 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM241.D
Acq On : 30 Oct 2017 10:58 am
Operator : J.Misiurewicz
Sample : RQ1711100-01
Misc : 301663 8270D BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: TEBINT.P



Library Search Compound Report

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM241.D
Acq On : 30 Oct 2017 10:58 am
Operator : J.Misiurewicz
Sample : RQ1711100-01
Misc : 301663 8270D BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: TEBINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM241.D
Acq On : 30 Oct 2017 10:58 am
Operator : J.Misiurewicz
Sample : RQ1711100-01
Misc : 301663 8270D BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS

TIC Library : C:\DATABASE\NIST08.L
TIC Integration Parameters: TEBINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM241.D
Acq On : 30 Oct 2017 10:58 am
Operator : J.Misiurewicz
Sample : RQ1711100-01
Misc : 301663 8270D BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 30 11:39:40 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

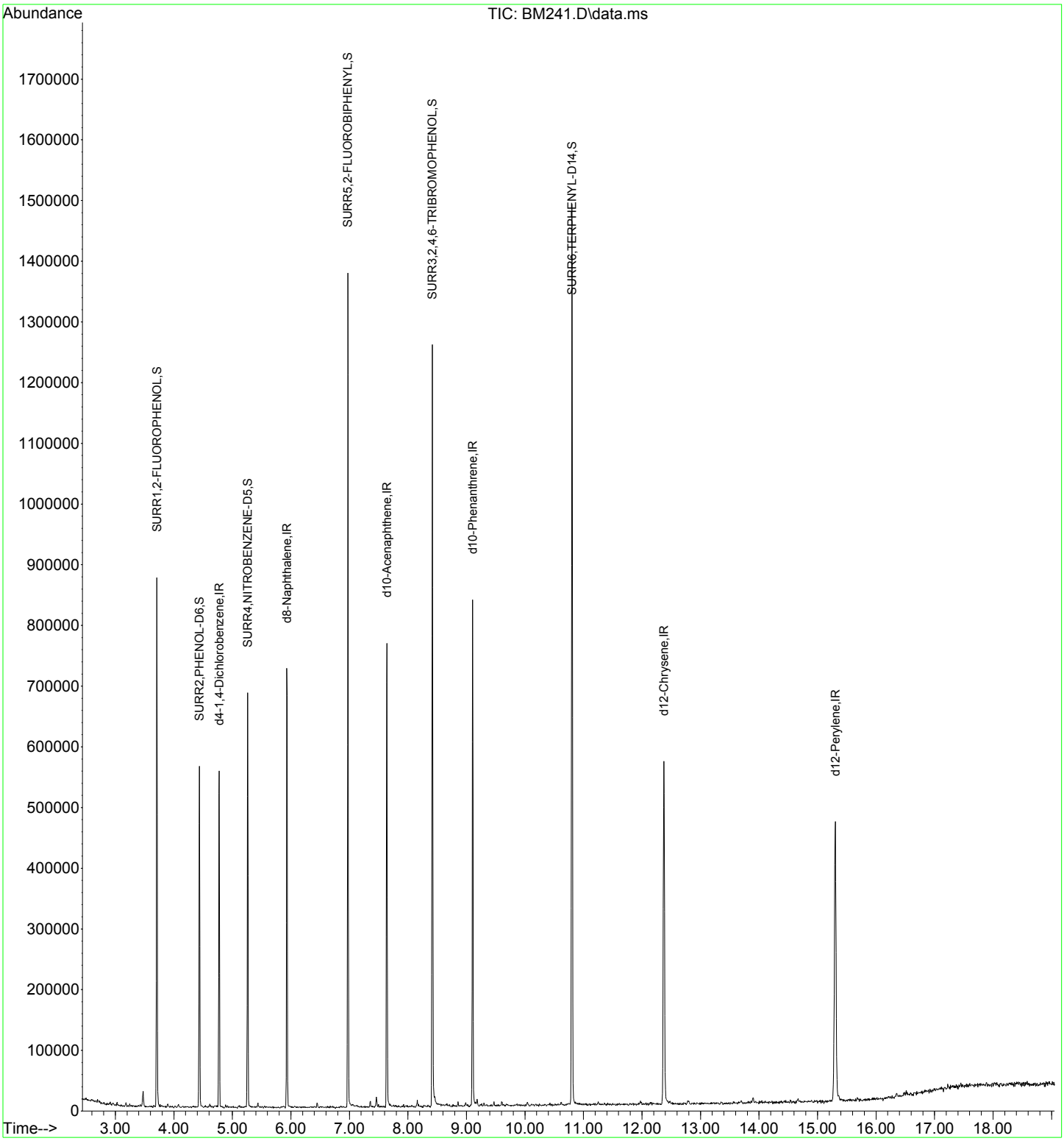
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	80664	40.00	ppm	0.00
33) d8-Naphthalene	5.930	136	307523	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	151922	40.00	ppm	0.00
91) d10-Phenanthrene	9.107	188	283022	40.00	ppm	0.00
117) d12-Chrysene	12.375	240	282132	40.00	ppm	0.00
135) d12-Perylene	15.306	264	304527	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	222996	82.56	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 41.28%			
12) SURR2,PHENOL-D6	4.437	99	178610	55.98	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 27.99%			
34) SURR4,NITROBENZENE-D5	5.261	82	200170	72.31	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 72.31%			
63) SURR5,2-FLUOROBIPHENYL	6.973	172	396077	68.94	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 68.94%			
88) SURR3,2,4,6-TRIBROMOPH...	8.417	330	144687	142.44	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 71.22%			
124) SURR6,TERPHENYL-D14	10.802	244	506700	79.00	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 79.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/31/17
2nd 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM241.D
Acq On : 30 Oct 2017 10:58 am
Operator : J.Misiurewicz
Sample : RQ1711100-01
Misc : 301663 8270D BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 30 11:39:40 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM241.D
Acq On : 30 Oct 2017 10:58 am
Operator : J.Misiurewicz
Sample : RQ1711100-01
Misc : 301663 8270D BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 10:15:11 2017
Quant Method : I:\ACQUDATA\5973D\Methods\PHEN102517D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 13:20:52 2017
Response via : Initial Calibration

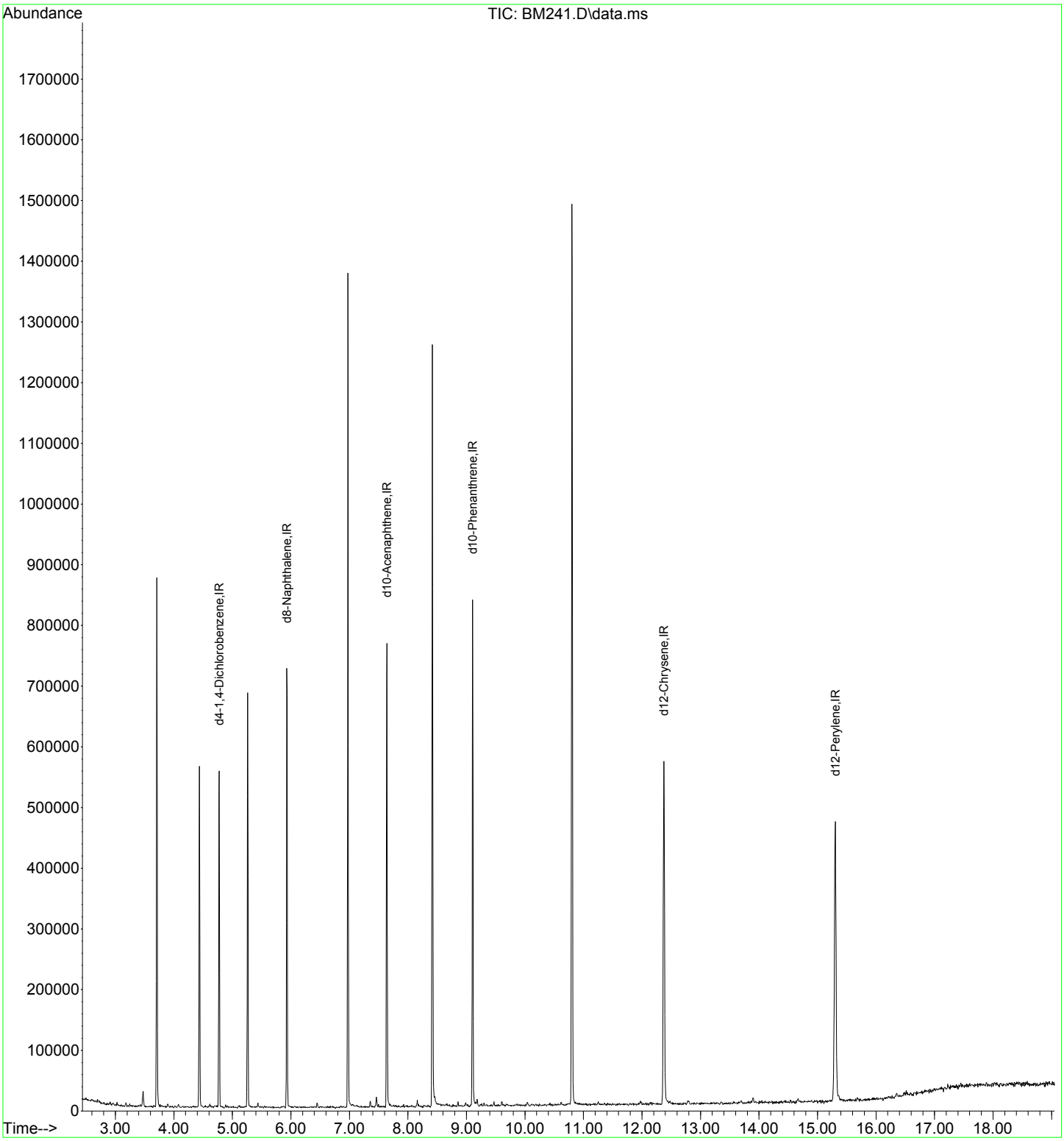
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	80664	40.00	ppm	0.00
2) d8-Naphthalene	5.930	136	308169	40.00	ppm	0.00
6) d10-Acenaphthene	7.641	164	151922	40.00	ppm	0.00
13) d10-Phenanthrene	9.107	188	283022	40.00	ppm	0.00
14) d12-Chrysene	12.375	240	282935	40.00	ppm	0.01
15) d12-Perylene	15.306	264	304473	40.00	ppm	0.02
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM241.D
Acq On : 30 Oct 2017 10:58 am
Operator : J.Misiurewicz
Sample : RQ1711100-01
Misc : 301663 8270D BLK
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 10:15:11 2017
Quant Method : I:\ACQUDATA\5973D\Methods\PHEN102517D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 13:20:52 2017
Response via : Initial Calibration



1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM242.D
Acq On : 30 Oct 2017 11:26 am
Operator : J.Misiurewicz
Sample : RQ1711100-02
Misc : 301663 8270D LCS
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 31 07:51:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	90851	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	344190	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	172060	40.00	ppm	0.00
91) d10-Phenanthrene	9.107	188	299533	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	317524	40.00	ppm	0.00
135) d12-Perylene	15.311	264	320410	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	66732	21.94	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 10.97%			
12) SURR2,PHENOL-D6	4.437	99	107530	29.92	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 14.96%			
34) SURR4,NITROBENZENE-D5	5.261	82	239479	77.29	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 77.29%			
63) SURR5,2-FLUOROBIPHENYL	6.978	172	492139	75.64	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 75.64%			
88) SURR3,2,4,6-TRIBROMOPH...	8.417	330	46947	40.81	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 20.41%#			
124) SURR6,TERPHENYL-D14	10.807	244	586428	81.24	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 81.24%			
Target Compounds						Qvalue
2) Pyridine	2.774	79	117913	39.981	ppm	95
3) N-Nitrosodimethylamine	2.736	74	82626	52.127	ppm	94
10) Benzaldehyde	4.405	106	175235	98.573	ppm	95
11) Aniline	4.491	93	251529	52.877	ppm	99
13) Phenol	4.453	94	55937	14.912	ppm	97
14) bis(2-Clethyl)Ether	4.534	93	196502	65.926	ppm	95
16) 2-Chlorophenol	4.592	128	76019	24.460	ppm	98
17) 1,3-Diclbenzene	4.726	146	183204	54.153	ppm	95
18) 1,4-Dichlorobenzene	4.790	146	191620	56.722	ppm	96
19) 1,2-Diclbenzene	4.924	146	188177	57.759	ppm	98
20) Benzyl Alcohol	4.887	79	165773	64.412	ppm	97
22) 2,2'-oxybis(1-Chloropr...	4.999	45	281142	65.353	ppm	97
23) 2-Methylphenol	4.977	108	154089	59.046	ppm	95
24) 3+4-Methylphenol	5.111	108	137834	46.807	ppm	86
25) Acetophenone	5.122	105	627849	152.705	ppm	99
26) N-Nitroso-Di-n-propyla...	5.117	70	166032	73.261	ppm	91
30) Hexachloroethane	5.223	117	73330	52.142	ppm	95
32) Alpha-terpinol	5.956	121	93265	79.222	ppm	96
35) Nitrobenzene	5.282	77	221932	64.357	ppm	97
37) Isophorone	5.496	82	424417	68.057	ppm	98
38) 2-Nitrophenol	5.571	139	33517	21.669	ppm	92
40) 2,4-Dimethylphenol	5.603	107	229303	78.375	ppm	96
41) bis(-2-Chloroethoxy)Me...	5.694	93	269654	73.858	ppm	100
42) 2,4-Dichlorophenol	5.801	162	64222	26.321	ppm	95
44) 1,2,4-Trichlorobenzene	5.876	180	158811	57.144	ppm	91
45) Naphthalene	5.956	128	562203	64.253	ppm	100
46) 4-Chloroaniline	6.004	127	247063	67.421	ppm	97
48) Hexachlorobutadiene	6.069	225	90230	57.433	ppm	96
50) 4-Chloro-3-methylphenol	6.470	107	150495	62.576	ppm	95
52) Caprolactam	6.336	113	24284	29.253	ppm	95
55) 2-Methylnaphthalene	6.620	142	374773	64.108	ppm	96
56) 1-Methylnaphthalene	6.716	142	359241	67.961	ppm	96
58) Hexachlorocyclopentadiene	6.769	237	82209	47.608	ppm	96

1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM242.D
Acq On : 30 Oct 2017 11:26 am
Operator : J.Misiurewicz
Sample : RQ1711100-02
Misc : 301663 8270D LCS
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 31 07:51:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

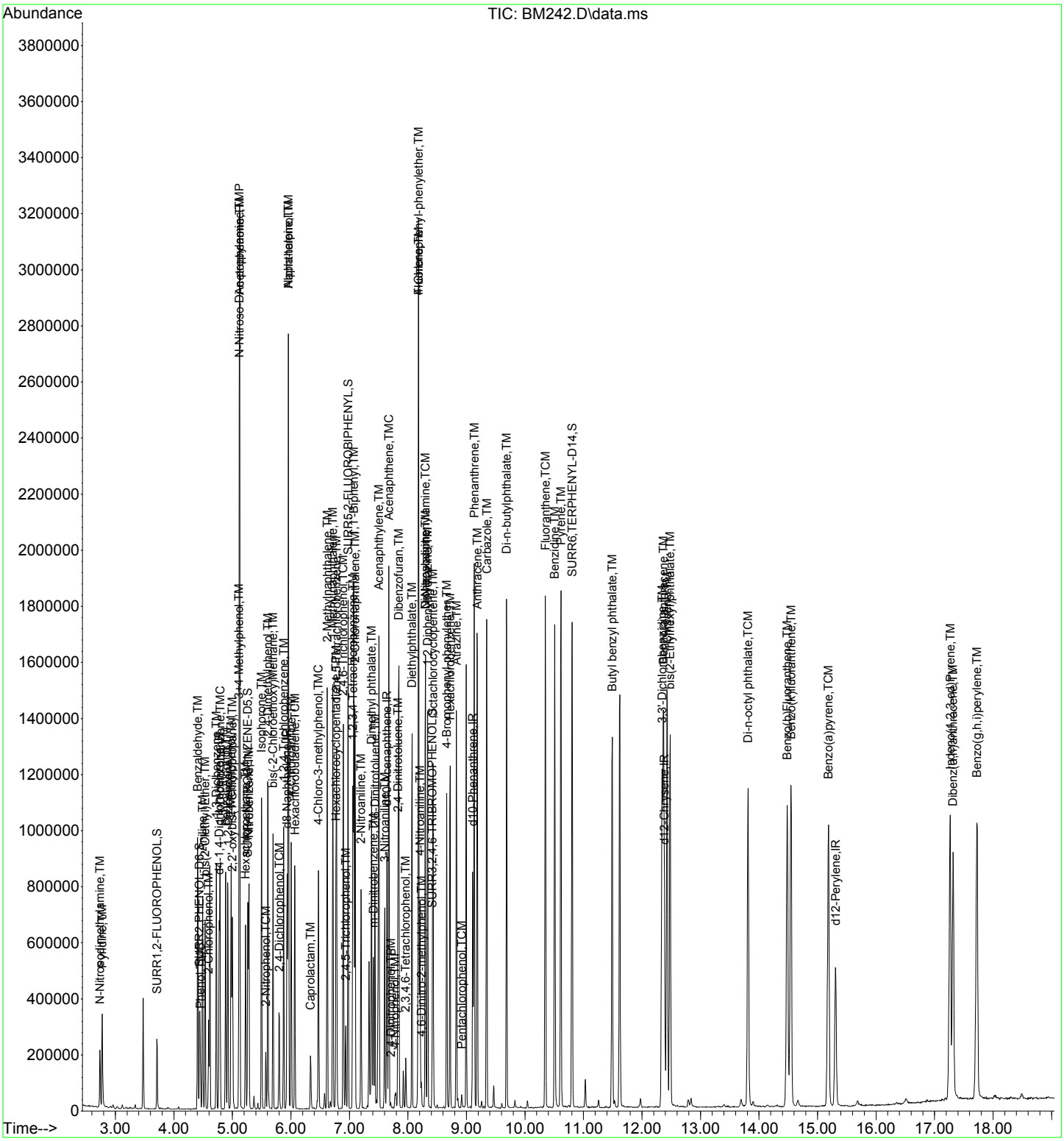
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59)	1,2,4,5-Tetrachloroben...	6.780	216	181311	64.863	ppm	95
60)	1,2,3,4-Tetrachloroben...	7.058	216	176522	69.695	ppm	94
61)	2,4,6-Trichlorophenol	6.892	196	33710	18.706	ppm	95
62)	2,4,5-Trichlorophenol	6.935	196	38367	21.649	ppm	96
65)	1,1'-Biphenyl	7.074	154	514240	71.886	ppm	98
66)	2-Chloronaphthalene	7.096	162	376215	67.344	ppm	99
67)	2-Nitroaniline	7.197	65	119159	77.985	ppm	96
69)	m-Dinitrobenzene	7.411	168	67268	77.328	ppm	95
70)	Acenaphthylene	7.502	152	668232	76.419	ppm	99
71)	Dimethyl phthalate	7.379	163	433358	71.435	ppm	98
72)	2,6-Dinitrotoluene	7.438	165	106695	70.527	ppm	95
73)	Acenaphthene	7.673	153	421068	72.361	ppm	100
74)	3-Nitroaniline	7.604	138	105913	71.375	ppm	98
75)	2,4-Dinitrophenol	7.705	184	1838	8.848	ppm	98
76)	Dibenzofuran	7.844	168	578047	74.806	ppm	100
77)	2,4-Dinitrotoluene	7.828	165	137475	71.097	ppm	96
78)	4-Nitrophenol	7.780	65	7386	5.828	ppm	88
82)	2,3,4,6-Tetrachlorophenol	7.962	232	20564	14.506	ppm	92
83)	Fluorene	8.181	166	457979	72.519	ppm	97
84)	4-Chlorophenyl-phenyle...	8.181	204	211843	64.117	ppm	94
85)	Diethylphthalate	8.069	149	443170	69.308	ppm	100
86)	4-Nitroaniline	8.208	138	136079	81.541	ppm	97
90)	Octachlorocyclopentene	8.427	307	86172	80.608	ppm	97
93)	4,6-Dinitro-2-methylph...	8.229	198	11842	15.232	ppm	95
94)	Diphenylamine	8.299	169	376603	84.192	ppm	98
95)	1,2 Diphenylhydrazine	8.336	77	488822	77.964	ppm	95
96)	N-Nitrosodiphenylamine	8.299	169	376603	84.189	ppm	98
101)	4-Bromophenyl-phenylether	8.663	248	119973	63.033	ppm	93
102)	Hexachlorobenzene	8.722	284	156024	75.637	ppm	97
104)	Atrazine	8.828	215	74997	125.336	ppm	95
105)	Pentachlorophenol	8.919	266	5202	7.650	ppm	99
111)	Phenanthrene	9.133	178	660613	80.744	ppm	99
112)	Anthracene	9.187	178	669601	82.526	ppm	99
113)	Carbazole	9.347	167	702578	87.923	ppm	97
114)	Di-n-butylphthalate	9.684	149	844763	81.414	ppm	100
116)	Fluoranthene	10.348	202	762683	86.107	ppm	98
122)	Benzidine	10.508	184	665224	113.070	ppm	99
123)	Pyrene	10.615	202	806537	82.659	ppm	99
128)	Butyl benzyl phthalate	11.492	149	402774	83.141	ppm	98
131)	3,3'-Dichlorobenzidine	12.343	252	318806	80.732	ppm	97
132)	Benzo(a)anthracene	12.364	228	766875	81.650	ppm	98
133)	Chrysene	12.428	228	741459	82.024	ppm	99
134)	bis(2-Ethylhexyl)phtha...	12.482	149	564273	80.173	ppm	96
136)	Di-n-octyl phthalate	13.813	149	956263	86.702	ppm	99
138)	Benzo(b)Fluoranthene	14.482	252	786605	80.946	ppm	100
139)	Benzo(k)fluoranthene	14.546	252	783983	83.772	ppm	97
140)	Benzo(a)pyrene	15.188	252	733009	86.051	ppm	98
142)	Indeno(1,2,3-cd)Pyrene	17.269	276	738506	87.919	ppm	96
143)	Dibenz(a,h)anthracene	17.317	278	570902	63.939	ppm	96
144)	Benzo(g,h,i)perylene	17.723	276	791254	96.464	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/31/17
2nd 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM242.D
Acq On : 30 Oct 2017 11:26 am
Operator : J.Misiurewicz
Sample : RQ1711100-02
Misc : 301663 8270D LCS
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 31 07:51:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM242.D
Acq On : 30 Oct 2017 11:26 am
Operator : J.Misiurewicz
Sample : RQ1711100-02
Misc : 301663 8270D LCS
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 31 10:15:13 2017
Quant Method : I:\ACQUDATA\5973D\Methods\PHEN102517D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 13:20:52 2017
Response via : Initial Calibration

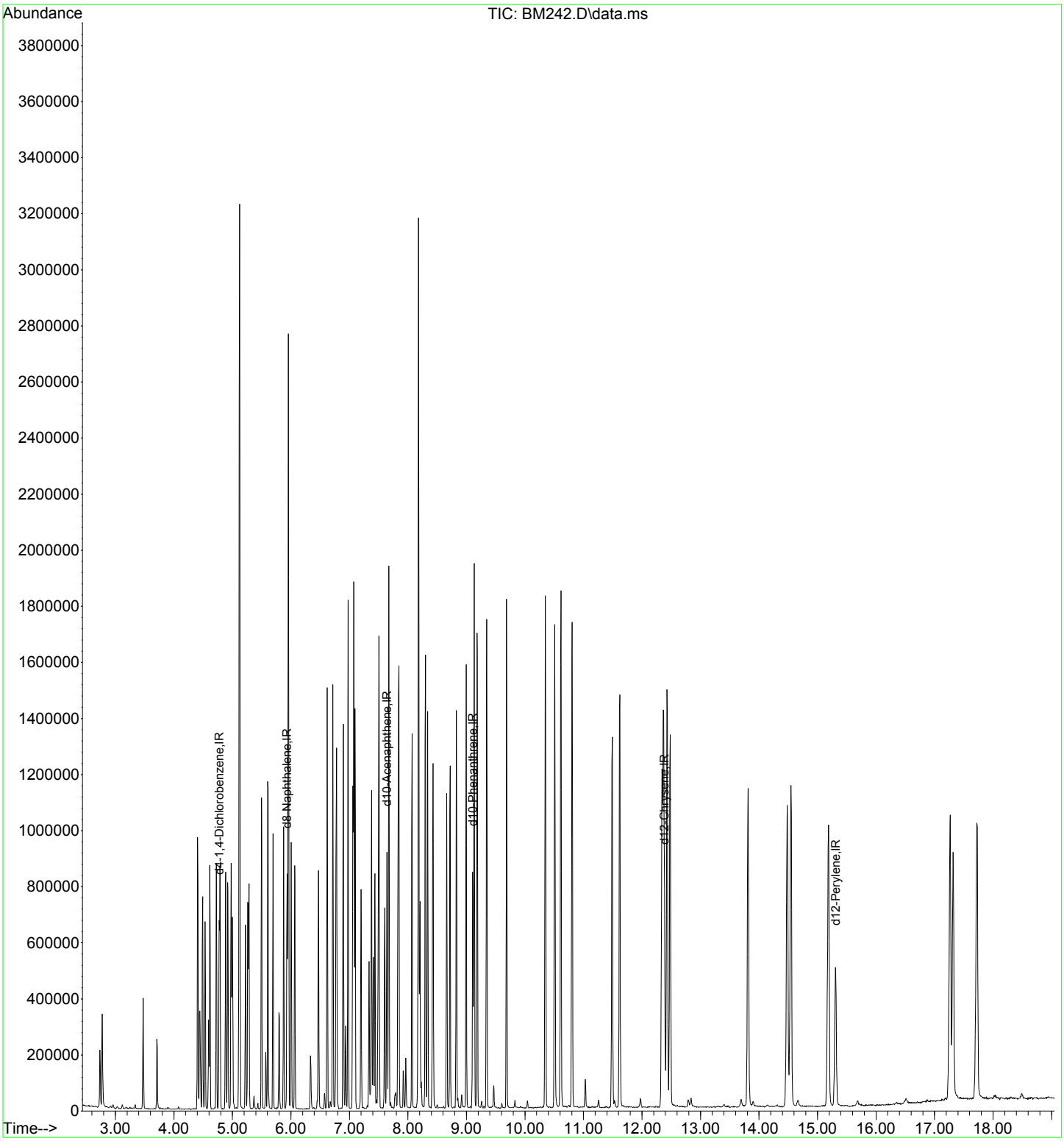
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	90851	40.00	ppm	0.00
2) d8-Naphthalene	5.935	136	344722	40.00	ppm	0.00
6) d10-Acenaphthene	7.641	164	172060	40.00	ppm	0.00
13) d10-Phenanthrene	9.107	188	299533	40.00	ppm	0.00
14) d12-Chrysene	12.385	240	317524	40.00	ppm	0.02
15) d12-Perylene	15.311	264	320410	40.00	ppm	0.03
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/31/17
2nd 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM242.D
Acq On : 30 Oct 2017 11:26 am
Operator : J.Misiurewicz
Sample : RQ1711100-02
Misc : 301663 8270D LCS
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 31 10:15:13 2017
Quant Method : I:\ACQUDATA\5973D\Methods\PHEN102517D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 13:20:52 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM243.D
Acq On : 30 Oct 2017 11:55 am
Operator : J.Misiurewicz
Sample : RQ1711100-03
Misc : 301663 8270D LCSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 31 07:51:25 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	91820	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	345435	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	176932	40.00	ppm	0.00
91) d10-Phenanthrene	9.107	188	306422	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	326848	40.00	ppm	0.00
135) d12-Perylene	15.306	264	328164	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	293816	95.57	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 47.78%			
12) SURR2,PHENOL-D6	4.437	99	252277	69.47	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 34.73%			
34) SURR4,NITROBENZENE-D5	5.261	82	265455	85.37	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 85.37%			
63) SURR5,2-FLUOROBIPHENYL	6.978	172	534574	79.90	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 79.90%			
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	195215	165.01	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 82.50%			
124) SURR6,TERPHENYL-D14	10.808	244	641973	86.40	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 86.40%			
Target Compounds						Qvalue
2) Pyridine	2.774	79	97716	32.783	ppm	98
3) N-Nitrosodimethylamine	2.736	74	84202	52.560	ppm	97
10) Benzaldehyde	4.405	106	187014	104.089	ppm	94
11) Aniline	4.491	93	266679	55.470	ppm	100
13) Phenol	4.453	94	130495	34.421	ppm	96
14) bis(2-Clethyl)Ether	4.534	93	217034	72.046	ppm	95
16) 2-Chlorophenol	4.592	128	240892	76.691	ppm	99
17) 1,3-Diclbenzene	4.726	146	207649	60.730	ppm	99
18) 1,4-Dichlorobenzene	4.790	146	219518	64.294	ppm	97
19) 1,2-Diclbenzene	4.924	146	210207	63.840	ppm	99
20) Benzyl Alcohol	4.887	79	180612	69.437	ppm	97
22) 2,2'-oxybis(1-Chloropr...	4.999	45	312271	71.823	ppm	100
23) 2-Methylphenol	4.978	108	201684	76.468	ppm	94
24) 3+4-Methylphenol	5.111	108	195914	65.829	ppm	88
25) Acetophenone	5.127	105	691132	166.322	ppm	94
26) N-Nitroso-Di-n-propyla...	5.122	70	191392	83.559	ppm	88
30) Hexachloroethane	5.224	117	80815	56.857	ppm	95
32) Alpha-terpinol	5.962	121	104479	87.811	ppm	93
35) Nitrobenzene	5.282	77	244951	70.777	ppm	100
37) Isophorone	5.502	82	479822	76.664	ppm	99
38) 2-Nitrophenol	5.571	139	137525	88.592	ppm	96
39) Benzoic Acid	5.657	105	11603	7.140	ppm	91
40) 2,4-Dimethylphenol	5.609	107	262531	89.409	ppm	98
41) bis(-2-Chloroethoxy)Me...	5.694	93	301321	82.234	ppm	100
42) 2,4-Dichlorophenol	5.801	162	208508	85.149	ppm	95
44) 1,2,4-Trichlorobenzene	5.876	180	181609	65.112	ppm	95
45) Naphthalene	5.956	128	628203	71.537	ppm	99
46) 4-Chloroaniline	6.004	127	274346	74.596	ppm	99
48) Hexachlorobutadiene	6.063	225	103329	65.533	ppm	95
50) 4-Chloro-3-methylphenol	6.470	107	220835	91.493	ppm	98
52) Caprolactam	6.352	113	23433	28.126	ppm	94
55) 2-Methylnaphthalene	6.620	142	414479	70.645	ppm	97
56) 1-Methylnaphthalene	6.716	142	401657	75.711	ppm	98

1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM243.D
Acq On : 30 Oct 2017 11:55 am
Operator : J.Misiurewicz
Sample : RQ1711100-03
Misc : 301663 8270D LCSD
ALS Vial : 7 Sample Multiplier: 1

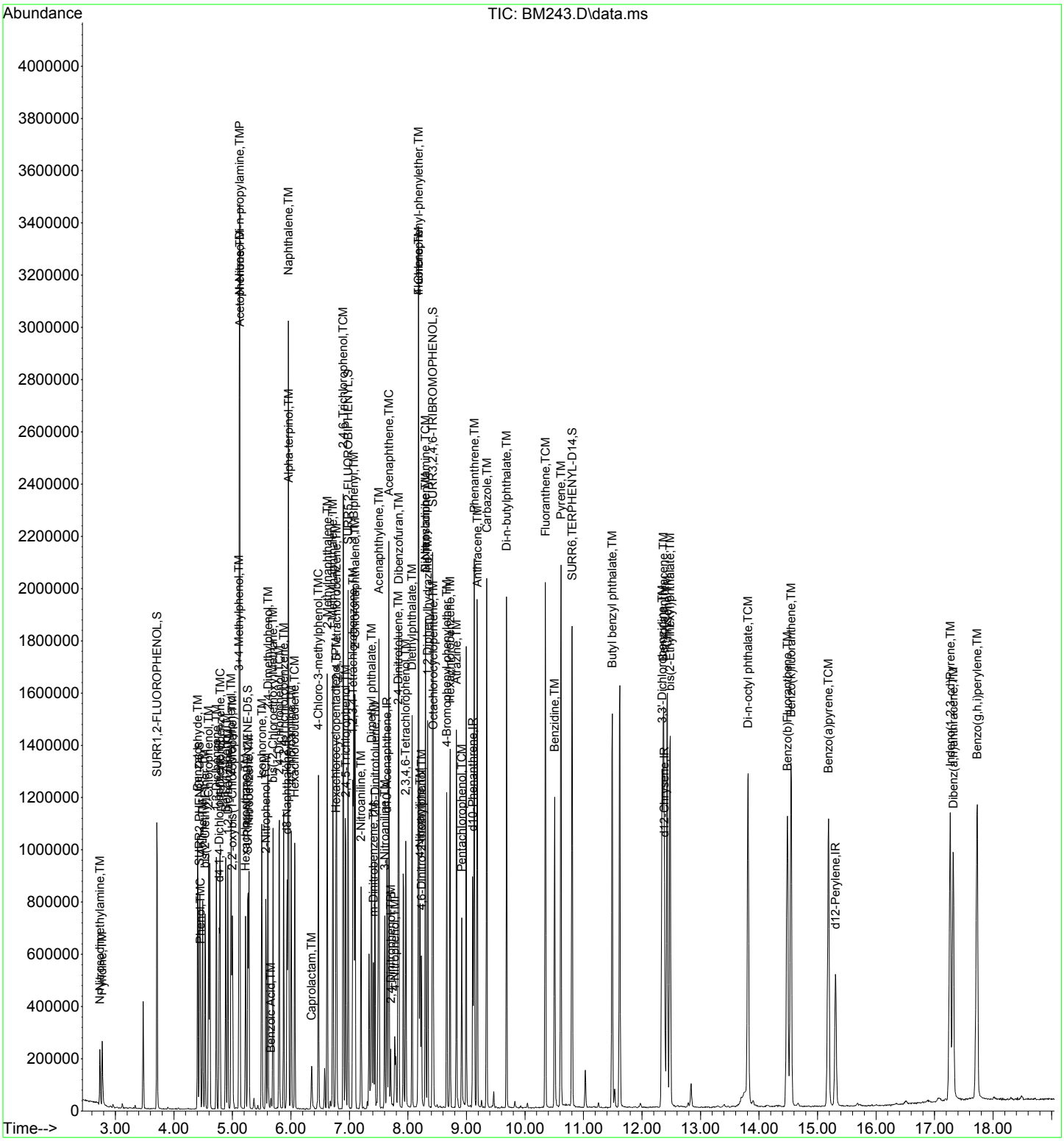
Quant Time: Oct 31 07:51:25 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Hexachlorocyclopentadiene	6.769	237	96113	54.128	ppm	98
59) 1,2,4,5-Tetrachloroben...	6.780	216	201758	70.190	ppm	98
60) 1,2,3,4-Tetrachloroben...	7.058	216	197394	75.789	ppm	93
61) 2,4,6-Trichlorophenol	6.892	196	156651	84.532	ppm	94
62) 2,4,5-Trichlorophenol	6.935	196	162470	89.150	ppm	98
65) 1,1'-Biphenyl	7.074	154	558491	75.922	ppm	98
66) 2-Chloronaphthalene	7.096	162	416584	72.517	ppm	98
67) 2-Nitroaniline	7.197	65	137345	87.412	ppm	95
69) m-Dinitrobenzene	7.411	168	75805	84.742	ppm	94
70) Acenaphthylene	7.502	152	738521	82.132	ppm	99
71) Dimethyl phthalate	7.379	163	474216	76.018	ppm	98
72) 2,6-Dinitrotoluene	7.438	165	115728	74.392	ppm	97
73) Acenaphthene	7.673	153	474197	79.248	ppm	99
74) 3-Nitroaniline	7.604	138	117117	76.752	ppm	97
75) 2,4-Dinitrophenol	7.705	184	32948	48.179	ppm	91
76) Dibenzofuran	7.844	168	655085	82.442	ppm	97
77) 2,4-Dinitrotoluene	7.834	165	152446	76.668	ppm	97
78) 4-Nitrophenol	7.775	65	46018	35.308	ppm	99
82) 2,3,4,6-Tetrachlorophenol	7.962	232	114180	78.328	ppm	90
83) Fluorene	8.181	166	507383	78.130	ppm	98
84) 4-Chlorophenyl-phenyle...	8.181	204	235474	69.306	ppm	95
85) Diethylphthalate	8.069	149	498504	75.815	ppm	98
86) 4-Nitroaniline	8.208	138	146489	85.362	ppm	95
90) Octachlorocyclopentene	8.433	307	98532	89.631	ppm	96
93) 4,6-Dinitro-2-methylph...	8.229	198	76769	75.504	ppm	89
94) Diphenylamine	8.299	169	429485	93.855	ppm	99
95) 1,2 Diphenylhydrazine	8.336	77	525096	81.866	ppm	96
96) N-Nitrosodiphenylamine	8.299	169	429485	93.853	ppm	99
101) 4-Bromophenyl-phenylether	8.663	248	131182	67.373	ppm	93
102) Hexachlorobenzene	8.722	284	172670	81.825	ppm	97
104) Atrazine	8.829	215	80470	131.459	ppm	91
105) Pentachlorophenol	8.919	266	78846	68.499	ppm	95
111) Phenanthrene	9.133	178	735474	87.873	ppm	98
112) Anthracene	9.187	178	749235	90.264	ppm	100
113) Carbazole	9.347	167	767623	93.904	ppm	99
114) Di-n-butylphthalate	9.684	149	929939	87.608	ppm	99
116) Fluoranthene	10.348	202	844071	93.153	ppm	98
122) Benzidine	10.508	184	476524	78.686	ppm	96
123) Pyrene	10.615	202	894683	89.077	ppm	98
128) Butyl benzyl phthalate	11.492	149	443486	88.933	ppm	98
131) 3,3'-Dichlorobenzidine	12.343	252	331708	81.603	ppm	94
132) Benzo(a)anthracene	12.369	228	847081	87.617	ppm	97
133) Chrysene	12.434	228	815421	87.633	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.482	149	636891	87.909	ppm	98
136) Di-n-octyl phthalate	13.813	149	1105522	97.867	ppm	99
138) Benzo(b)Fluoranthene	14.487	252	868635	87.275	ppm	96
139) Benzo(k)fluoranthene	14.546	252	869528	90.717	ppm	97
140) Benzo(a)pyrene	15.188	252	811766	93.045	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.269	276	794457	92.345	ppm	94
143) Dibenz(a,h)anthracene	17.322	278	621836	67.998	ppm	96
144) Benzo(g,h,i)perylene	17.729	276	866529	103.145	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM243.D
Acq On : 30 Oct 2017 11:55 am
Operator : J.Misiurewicz
Sample : RQ1711100-03
Misc : 301663 8270D LCSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 31 07:51:25 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM243.D
Acq On : 30 Oct 2017 11:55 am
Operator : J.Misiurewicz
Sample : RQ1711100-03
Misc : 301663 8270D LCSD
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 31 10:15:15 2017
Quant Method : I:\ACQUDATA\5973D\Methods\PHEN102517D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 13:20:52 2017
Response via : Initial Calibration

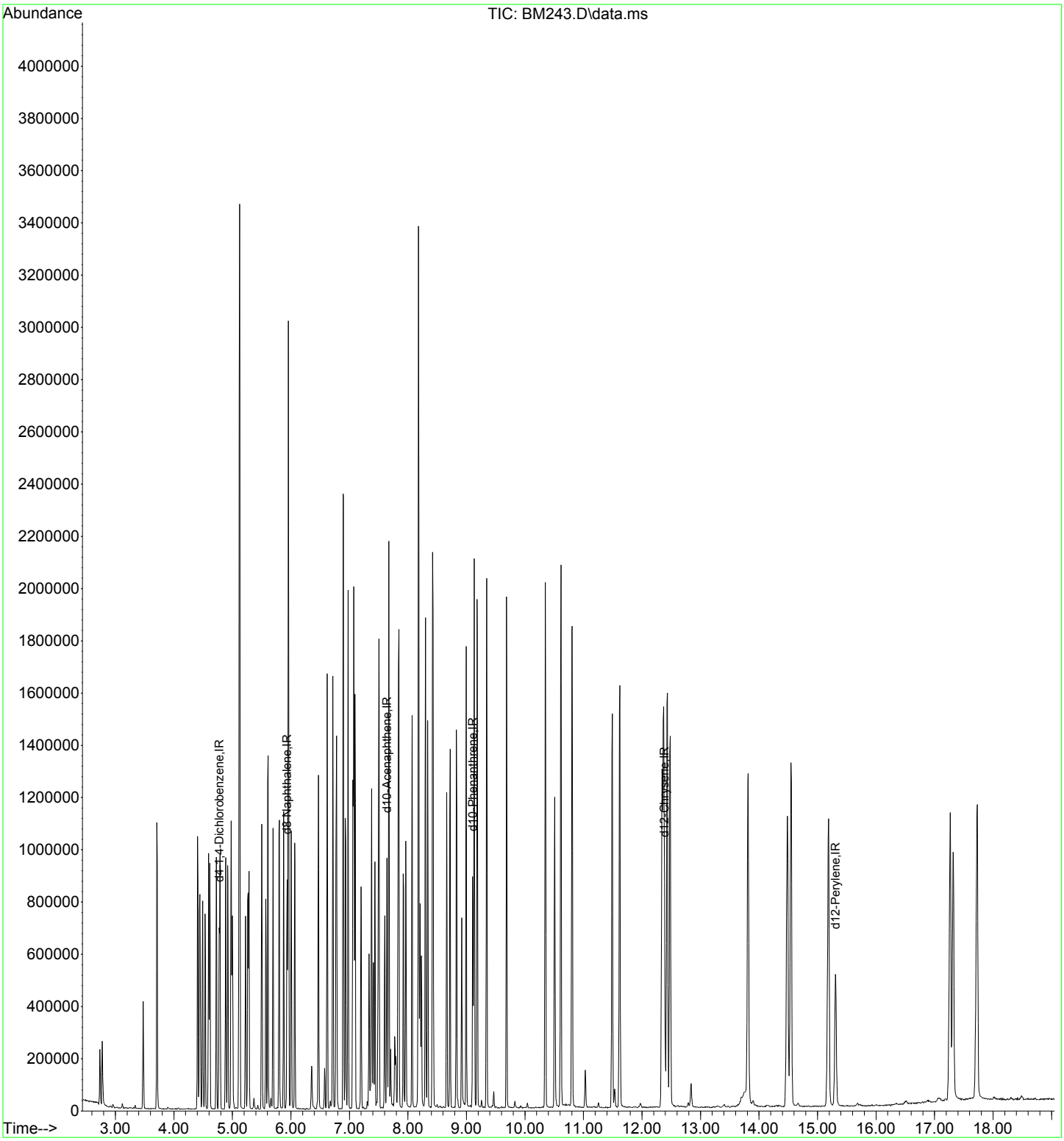
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	91820	40.00	ppm	0.00
2) d8-Naphthalene	5.935	136	346548	40.00	ppm	0.00
6) d10-Acenaphthene	7.641	164	176932	40.00	ppm	0.00
13) d10-Phenanthrene	9.107	188	306422	40.00	ppm	0.00
14) d12-Chrysene	12.385	240	326966	40.00	ppm	0.02
15) d12-Perylene	15.306	264	328164	40.00	ppm	0.02
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM243.D
Acq On : 30 Oct 2017 11:55 am
Operator : J.Misiurewicz
Sample : RQ1711100-03
Misc : 301663 8270D LCSD
ALS Vial : 7 Sample Multiplier: 1

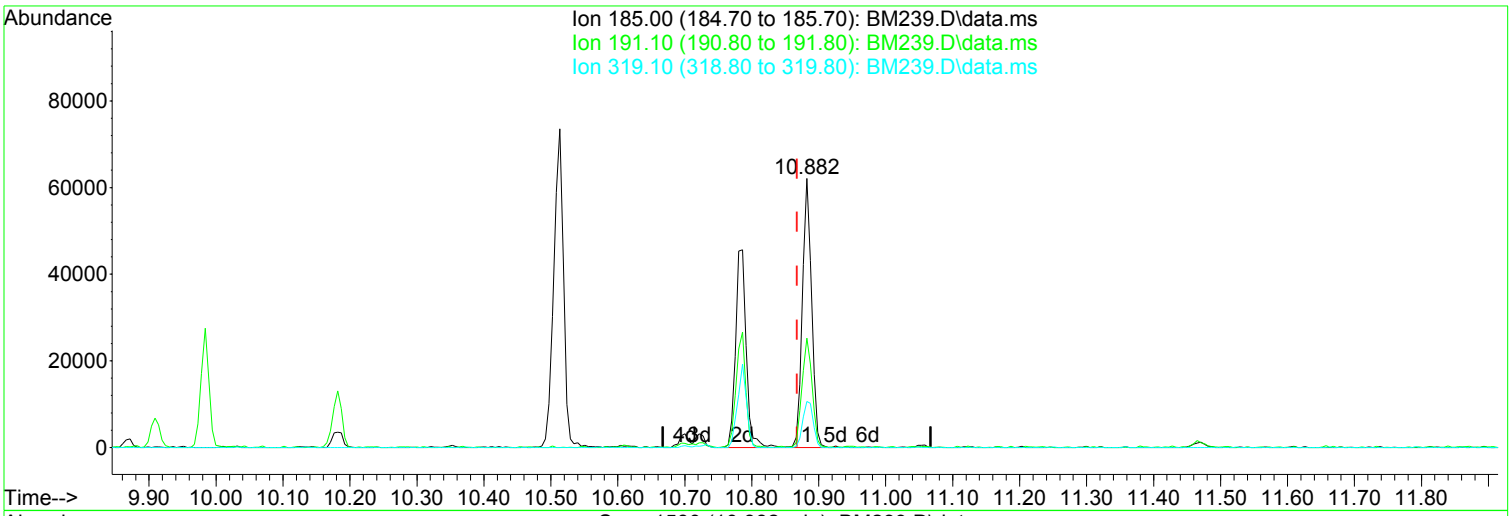
Quant Time: Oct 31 10:15:15 2017
Quant Method : I:\ACQUDATA\5973D\Methods\PHEN102517D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 13:20:52 2017
Response via : Initial Calibration

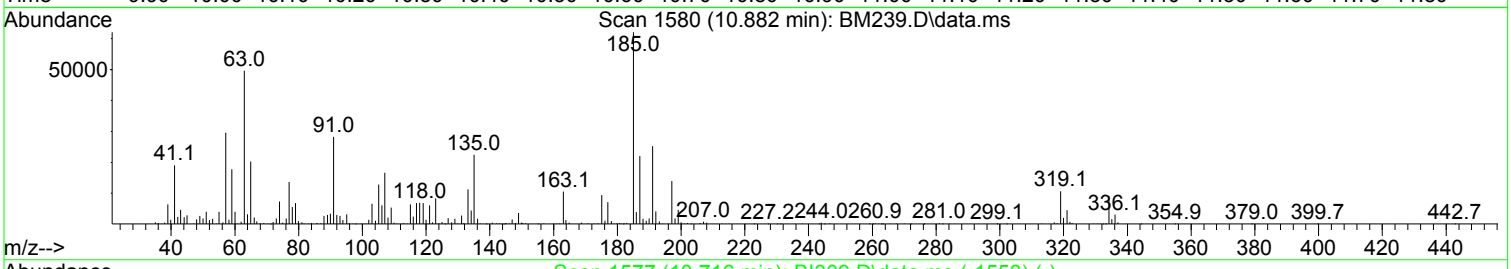


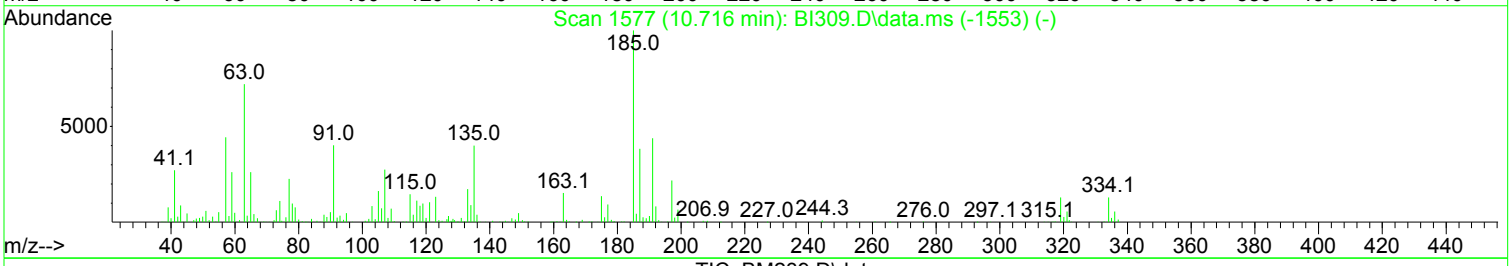
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration







TIC: BM239.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.015) 77.60 ppm m

response 110095

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	40.71
319.10	22.50	17.16
0.00	0.00	0.00

Manual Integration:

After

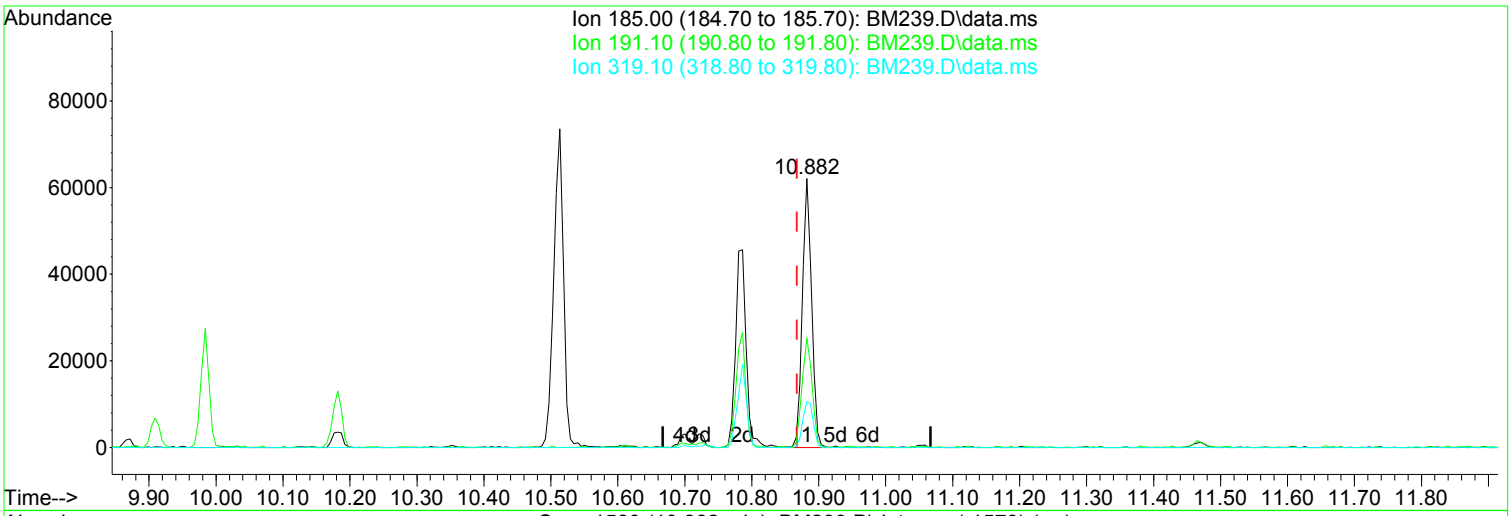
Split Peak.

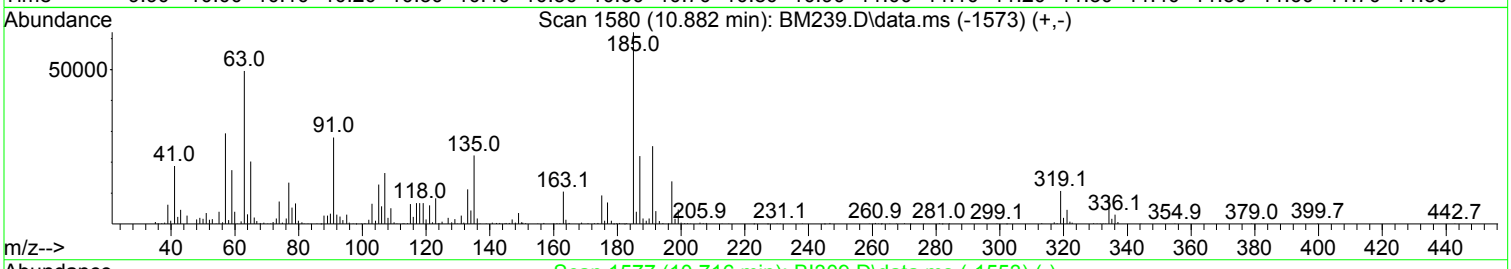
10/30/17

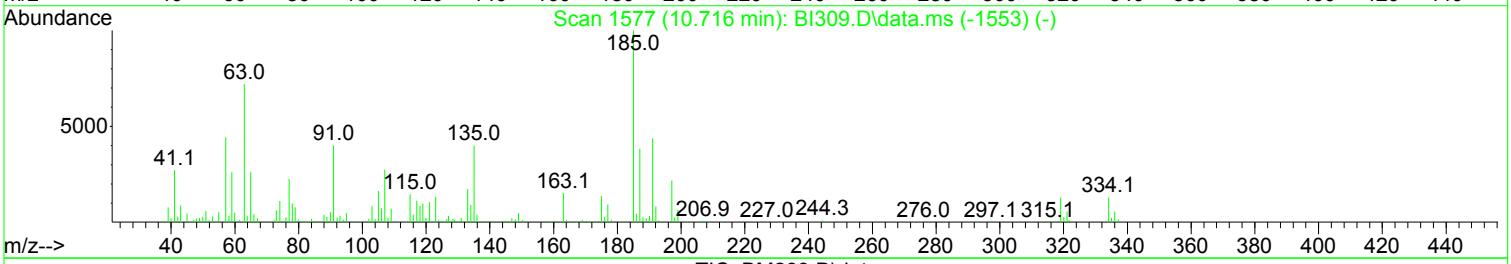
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration







TIC: BM239.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.015) 42.12 ppm

response 59758

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	40.37
319.10	22.50	17.16
0.00	0.00	0.00

Manual Integration:

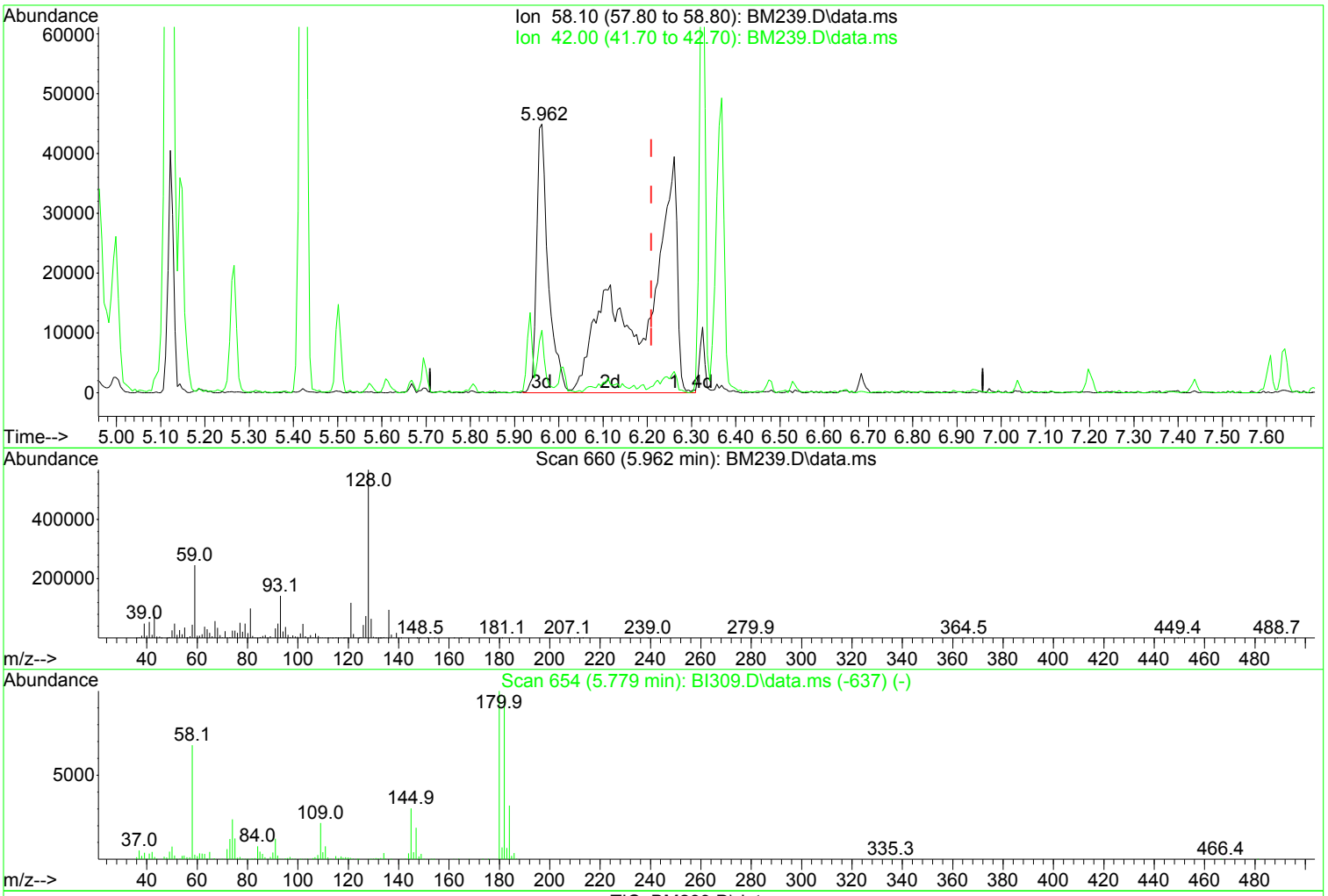
Before

10/30/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



TIC: BM239.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

5.962min (-0.248) 40.08 ppm m

response 293348

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	23.31
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

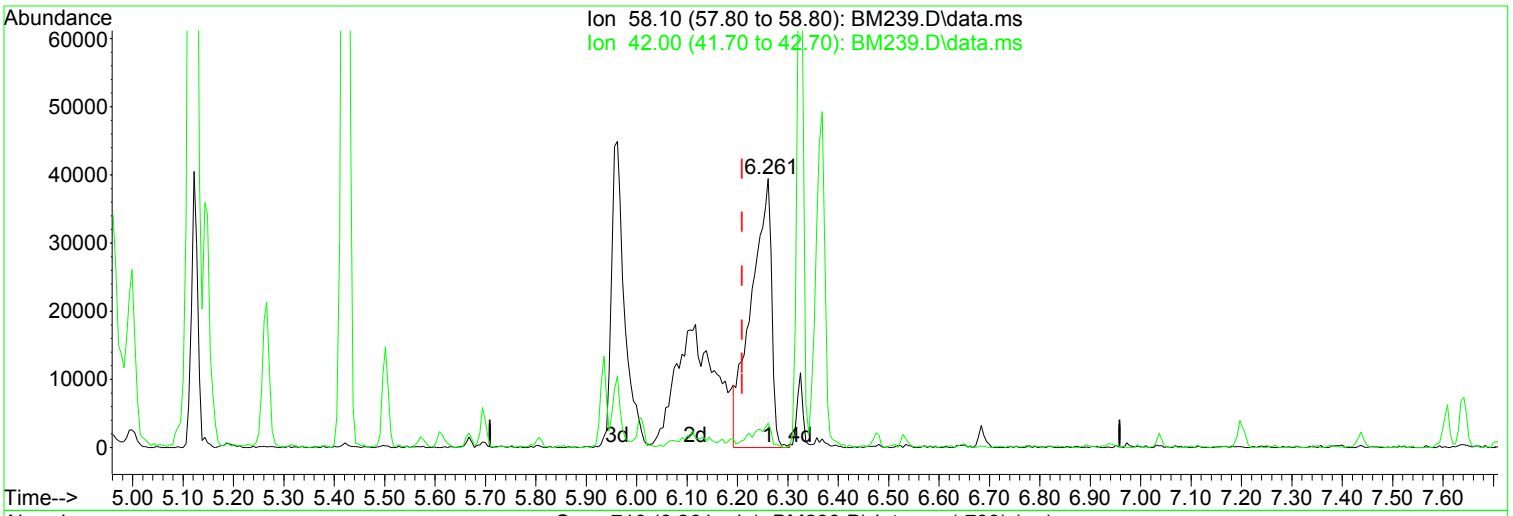
Poor integration.

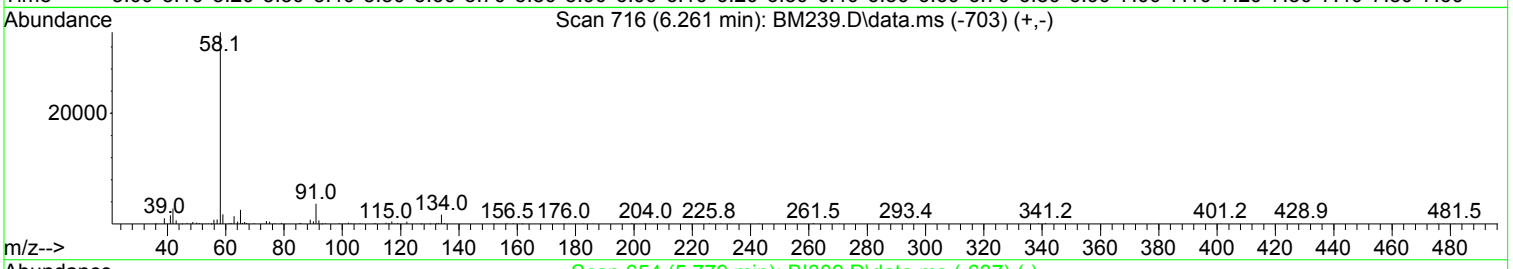
10/30/17

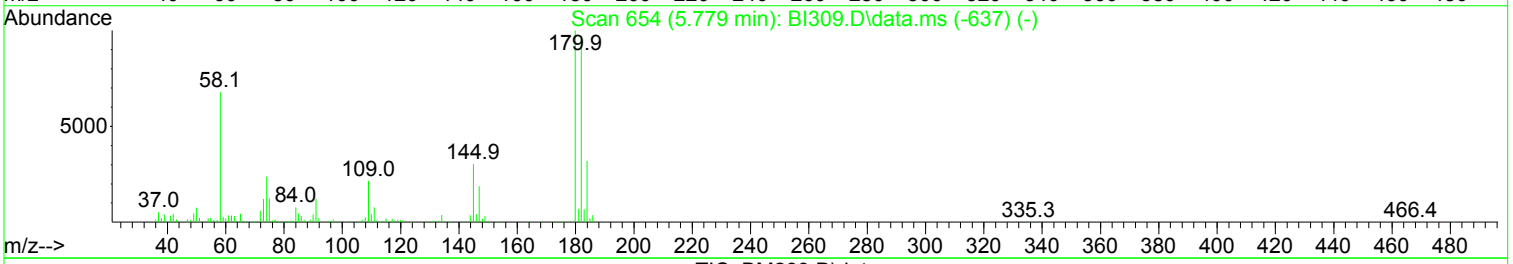
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration







TIC: BM239.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.261min (+ 0.052) 15.02 ppm

response 109963

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	7.98
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/30/17

1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	111	0.00
2	TM	Pyridine	1.298	1.348	-3.9	110	0.00
3	TM	N-Nitrosodimethylamine	0.698	0.740	-6.0	113	0.00
4	TM	2-Picoline	1.382	1.395	-0.9	111	0.00
5	TM	N-Nitrosomethylamine	0.745	0.711	4.6	107	0.00
6	TM	Methyl Methansulfonate	0.702	0.685	2.4	106	0.00
7	S	SURR1,2-FLUOROPHENOL	1.339	1.348	-0.7	110	0.00
8	TM	N-Nitrosodiethylamine	0.610	0.602	1.3	108	0.00
9	TM	Ethyl Mathanesulfonate	0.968	0.939	3.0	104	0.00
10	TM	Benzaldehyde	0.783	0.818	-4.5	130	0.00
11	TM	Aniline	2.094	2.108	-0.7	108	0.00
12	S	SURR2,PHENOL-D6	1.582	1.609	-1.7	111	0.00
13	TMC	Phenol	1.652	1.672	-1.2	111	0.00
14	TM	bis(2-Clethyl)Ether	1.312	1.360	-3.7	115	0.00
15	TM	Pentachloroethane	0.494	0.494	0.0	109	0.00
16	TM	2-Chlorophenol	1.368	1.387	-1.4	112	0.00
17	TM	1,3-Diclbenzene	1.490	1.461	1.9	106	0.00
18	TMC	1,4-Dichlorobenzene	1.487	1.473	0.9	105	0.00
19	TM	1,2-Diclbenzene	1.434	1.453	-1.3	112	0.00
20	TM	Benzyl Alcohol	1.133	1.120	1.1	107	0.00
21	T	1-Methyl-2-pyrrolidinone	0.833	0.886	-6.4	111	0.00
22	TM	2,2'-oxybis(1-Chloropropane	1.894	1.895	-0.1	114	0.00
23	TM	2-Methylphenol	1.149	1.154	-0.4	110	0.00
24	TM	3+4-Methylphenol	1.297	1.320	-1.8	115	0.00
25	TM	Acetophenone	1.810	1.811	-0.1	112	0.00
26	TMP	N-Nitroso-Di-n-propylamine	0.998	0.994	0.4	113	0.00
27	TM	N-Nitrosopyrrolidine	0.663	0.683	-3.0	116	0.00
28	TM	N-Nitrosomorpholine	0.836	0.822	1.7	113	0.00
29	TM	o-Toluidine	2.021	2.057	-1.8	113	0.00
30	TM	Hexachloroethane	0.619	0.616	0.5	111	0.00
31	TM	o,o,o-Triethylphosphorothio	0.569	0.593	-4.2	110	0.00
32	TM	Alpha-terpinol	0.518	0.522	-0.8	100	0.00
33	IR	d8-Naphthalene	1.000	1.000	0.0	106	0.00
34	S	SURR4,NITROBENZENE-D5	0.360	0.376	-4.4	113	0.00
35	TM	Nitrobenzene	0.401	0.426	-6.2	116	0.00
36	TM	N-Nitrosopiperidine	0.240	0.237	1.3	107	0.00
37	TM	Isophorone	0.725	0.750	-3.4	113	0.00
38	TCM	2-Nitrophenol	0.180	0.199	-10.6	115	0.00
39	TM	Benzoic Acid	0.188	0.174	7.4	104	0.00
40	TM	2,4-Dimethylphenol	0.340	0.348	-2.4	109	0.00
41	TM	bis(-2-Chloroethoxy)Methane	0.424	0.448	-5.7	116	0.00
42	TCM	2,4-Dichlorophenol	0.284	0.298	-4.9	105	0.00
43	TM	a,a-Dimethylphenethylamine	0.774	0.775	-0.1	104	-0.25
44	TM	1,2,4-Trichlorobenzene	0.323	0.324	-0.3	102	0.00
45	TM	Naphthalene	1.017	1.039	-2.2	104	0.00
46	TM	4-Chloroaniline	0.426	0.441	-3.5	105	0.00
47	TM	2,6-Dichlorophenol	0.282	0.291	-3.2	104	0.00
48	TCM	Hexachlorobutadiene	0.183	0.182	0.5	101	0.00
49	TM	Hexachloropropene	0.216	0.224	-3.7	102	0.00
50	TMC	4-Chloro-3-methylphenol	0.279	0.300	-7.5	107	0.00
51	TM	N-N-di-n-butylamine	0.253	0.230	9.1	101	0.00

1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)	
52	TM	Caprolactam	0.096	0.098		-2.1	104	0.00	
53	TM	p-Phenylenediamine	0.164	0.054		67.1#	38#	0.00	OK spk amount wrong
54	TM	Safrole	0.260	0.273		-5.0	104	0.00	
55	TM	2-Methylnaphthalene	0.679	0.697		-2.7	104	0.00	
56	TM	1-Methylnaphthalene	0.614	0.644		-4.9	107	0.00	
57	IR	d10-Acenaphthene	1.000	1.000		0.0	122	0.00	
58	TPM	Hexachlorocyclopentadiene	0.401	0.385		4.0	103	0.00	
59	TM	1,2,4,5-Tetrachlorobenzene	0.650	0.633		2.6	109	0.00	
60	TM	1,2,3,4-Tetrachlorobenzene	0.589	0.558		5.3	109	0.00	
61	TCM	2,4,6-Trichlorophenol	0.419	0.412		1.7	108	0.00	
62	TM	2,4,5-Trichlorophenol	0.412	0.392		4.9	112	0.00	
63	S	SURR5,2-FLUOROBIPHENYL	1.513	1.468		3.0	112	0.00	
64	TM	Isosafrole	0.261	0.248		5.0	110	0.00	
65	TM	1,1'-Biphenyl	1.663	1.604		3.5	110	0.00	
66	TM	2-Chloronaphthalene	1.299	1.271		2.2	116	0.00	
67	TM	2-Nitroaniline	0.355	0.360		-1.4	117	0.00	
68	TM	1,4-Naphthoquinone	0.137	0.138		-0.7	122	0.00	
69	TM	m-Dinitrobenzene	0.202	0.203		-0.5	112	0.00	
70	TM	Acenaphthylene	2.033	2.006		1.3	117	0.00	
71	TM	Dimethyl phthalate	1.410	1.340		5.0	114	0.00	
72	TM	2,6-Dinitrotoluene	0.352	0.346		1.7	113	0.00	
73	TMC	Acenaphthene	1.353	1.307		3.4	107	0.00	
74	TM	3-Nitroaniline	0.345	0.359		-4.1	114	0.00	
75	TPM	2,4-Dinitrophenol	0.161	0.136	18.1	~~-15.5~~	88	0.00	
76	TM	Dibenzofuran	1.796	1.758		2.1	113	0.00	
77	TM	2,4-Dinitrotoluene	0.450	0.463		-2.9	109	0.00	
78	TMP	4-Nitrophenol	0.295	0.291		1.4	114	0.01	
79	TM	Pentachlorobenzene	0.575	0.558		3.0	111	0.00	
80	TM	1-Napthylamine	1.052	0.984		6.5	111	0.00	
81	TM	2-Napthylamine	1.120	1.093		2.4	108	0.00	
82	TM	2,3,4,6-Tetrachlorophenol	0.330	0.306		7.3	109	0.00	
83	TM	Fluorene	1.468	1.446		1.5	117	0.00	
84	TM	4-Chlorophenyl-phenylether	0.768	0.740		3.6	116	0.00	
85	TM	Diethylphthalate	1.487	1.435		3.5	113	0.00	
86	TM	4-Nitroaniline	0.388	0.383		1.3	106	0.00	
87	TM	5-Nitro-o-toluidine	0.406	0.416		-2.5	112	0.00	
88	S	SURR3,2,4,6-TRIBROMOPHENOL	0.267	0.249		6.7	109	0.00	
89	TM	Sulfotepp	0.243	0.238		2.1	112	0.00	
90	TM	Octachlorocyclopentene	0.249	0.245		1.6	105	0.00	
91	IR	d10-Phenanthrene	1.000	1.000		0.0	110	0.00	
92	TM	Thionazin	0.123	0.121		1.6	112	0.00	
93	TM	4,6-Dinitro-2-methylphenol	0.128	0.128	3.9	~~-0.0~~	109	0.00	
94	TM	Diphenylamine	0.597	0.587		1.7	110	0.00	
95	TM	1,2 Diphenylhydrazine	0.837	0.788		5.9	103	0.00	
96	TCM	N-Nitrosodiphenylamine	0.597	0.587		1.7	110	0.00	
97	TM	1,3,5-Trinirobenzene	0.065	0.067		-3.1	114	0.00	
98	TM	Diallate	0.277	0.262		5.4	113	0.00	
99	TM	Phorate	0.138	0.138		0.0	111	0.00	
100	TM	Phenacetin	0.397	0.406		-2.3	116	0.00	
101	TM	4-Bromophenyl-phenylether	0.254	0.235		7.5	113	0.00	

1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
102	TM	Hexachlorobenzene	0.275	0.254		7.6	109	0.00
103	TM	Dimethoate	0.243	0.245		-0.8	106	0.00
104	TM	Atrazine	0.080	0.078		2.5	142	0.00
105	TCM	Pentachlorophenol	0.150	0.108	26.5	~~-28.0~~	76	0.00
106	TM	4-Aminobiphenyl	0.668	0.683		-2.2	112	0.00
107	TM	Pentachloronitrobenzene	0.100	0.103		-3.0	113	0.00
108	TM	Pronamide	0.342	0.354		-3.5	113	0.00
109	TM	Dinoseb	0.180	0.171		5.0	104	0.00
110	TM	Disulfoton	0.314	0.297		5.4	106	0.00
111	TM	Phenanthrene	1.093	1.059		3.1	107	0.00
112	TM	Anthracene	1.084	1.079		0.5	108	0.00
113	TM	Carbazole	1.067	1.064		0.3	107	0.00
114	TM	Di-n-butylphthalate	1.386	1.417		-2.2	107	0.00
115	TM	4-Nitroquinonline-1-oxide	0.084	0.083		1.2	103	0.00
116	TCM	Fluoranthene	1.183	1.235		-4.4	117	0.00
117	IR	d12-Chrysene	1.000	1.000		0.0	123	0.00
118	TM	Methyl Parathion	0.192	0.200		-4.2	103	0.00
119	TM	Ethyl Parathion	0.151	0.157		-4.0	114	0.00
120	TM	Methapyrilene	0.324	0.304		6.2	110	0.00
121	TM	Isodrin	0.120	0.114		5.0	110	0.00
122	TM	Benzidine	0.741	0.710		4.2	101	0.00
123	TM	Pyrene	1.229	1.216		1.1	114	0.00
124	S	SURR6,TERPHENYL-D14	0.909	0.875		3.7	112	0.00
125	TM	Aramite	0.153	0.148		3.3	116	0.01
126	TM	p-(Dimethylamino)azobenzene	0.341	0.336		1.5	115	0.00
127	TM	Chlorobenzilate	0.404	0.399		1.2	116	0.00
128	TM	Butyl benzyl phthalate	0.610	0.620		-1.6	118	0.00
129	TM	3,3-Dimethylbenzidine	0.705	0.712		-1.0	110	0.00
130	TM	2-Acetylaminofluorene	0.499	0.507		-1.6	111	0.00
131	TM	3,3'-Dichlorobenzidine	0.497	0.496		0.2	112	0.00
132	TM	Benzo(a)anthracene	1.183	1.166		1.4	118	0.00
133	TM	Chrysene	1.139	1.116		2.0	116	0.00
134	TM	bis(2-Ethylhexyl)phthalate	0.887	0.899		-1.4	121	0.00
135	IR	d12-Perylene	1.000	1.000		0.0	119	0.00
136	TCM	Di-n-octyl phthalate	1.377	1.446		-5.0	112	0.00
137	TM	7,12-Dimethylbenz(a)anthrac	0.525	0.551		-5.0	112	0.00
138	TM	Benzo(b)Fluoranthene	1.213	1.270		-4.7	113	0.00
139	TM	Benzo(k)fluoranthene	1.168	1.238		-6.0	113	0.00
140	TCM	Benzo(a)pyrene	1.063	1.127		-6.0	116	0.00
141	TM	3-Methylcholanthrene	0.608	0.627		-3.1	118	0.00
142	TM	Indeno(1,2,3-cd)Pyrene	1.049	1.086		-3.5	122	0.00
143	TM	Dibenz(a,h)anthracene	1.115	1.146		-2.8	118	0.00
144	TM	Benzo(g,h,i)perylene	1.024	1.058		-3.3	118	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	99861	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	378468	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	197680	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	360868	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	371952	40.00	ppm	0.00
135) d12-Perylene	15.311	264	364191	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.715	112	269275	80.53	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 40.27%			
12) SURR2,PHENOL-D6	4.443	99	321291	81.35	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 40.67%			
34) SURR4,NITROBENZENE-D5	5.266	82	284424	83.48	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 83.48%			
63) SURR5,2-FLUOROBIPHENYL	6.978	172	580502	77.66	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 77.66%			
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	98614	74.61	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 37.31%			
124) SURR6,TERPHENYL-D14	10.807	244	650958	76.99	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 76.99%			
Target Compounds						Qvalue
2) Pyridine	2.768	79	269191	83.040	ppm	99
3) N-Nitrosodimethylamine	2.731	74	147784	84.821	ppm	96
4) 2-Picoline	3.293	93	278584	80.718	ppm	97
5) N-Nitrosomethylamine	3.367	42	142071	76.435	ppm	93
6) Methyl Methansulfonate	3.587	80	136909	78.076	ppm	96
8) N-Nitrosodiethylamine	3.892	102	120312	78.984	ppm	93
9) Ethyl Mathanesulfonate	4.122	79	187515	77.579	ppm	97
10) Benzaldehyde	4.405	106	163382	83.613	ppm	91
11) Aniline	4.491	93	421056	80.528	ppm	98
13) Phenol	4.453	94	333914	80.985	ppm	99
14) bis(2-Clethyl)Ether	4.533	93	271703	82.931	ppm	98
15) Pentachloroethane	4.539	117	98575	79.903	ppm	93
16) 2-Chlorophenol	4.592	128	276980	81.079	ppm	97
17) 1,3-Diclbenzene	4.726	146	291773	78.463	ppm	95
18) 1,4-Dichlorobenzene	4.790	146	294186	79.225	ppm	97
19) 1,2-Diclbenzene	4.919	146	290248	81.050	ppm	94
20) Benzyl Alcohol	4.886	79	223775	79.104	ppm	98
21) 1-Methyl-2-pyrrolidinone	4.951	99	176980	85.107	ppm	96
22) 2,2'-oxybis(1-Chloropr...	4.999	45	378430	80.031	ppm	89
23) 2-Methylphenol	4.988	108	230539	80.370	ppm	91
24) 3+4-Methylphenol	5.127	108	263713	81.475	ppm	100
25) Acetophenone	5.127	105	361669	80.028	ppm	85
26) N-Nitroso-Di-n-propyla...	5.122	70	198569	79.712	ppm	93
27) N-Nitrosopyrrolidine	5.116	100	136486	82.515	ppm	63
28) N-Nitrosomorpholine	5.143	56	164124	78.672	ppm	94
29) o-Toluidine	5.159	106	410826	81.439	ppm	94
30) Hexachloroethane	5.223	117	123115	79.643	ppm	96
31) o,o,o-Triethylphosphor...	5.667	198	118481	83.460	ppm	89
32) Alpha-terpinol	5.962	121	104180	80.509	ppm	97
35) Nitrobenzene	5.282	77	322744	85.115	ppm	93
36) N-Nitrosopiperidine	5.421	42	179657	79.170	ppm	99
37) Isophorone	5.502	82	567461	82.753	ppm	98
38) 2-Nitrophenol	5.571	139	150843	88.690	ppm	97

1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.694	105	131387	73.791	ppm		93
40) 2,4-Dimethylphenol	5.614	107	263690	81.965	ppm		93
41) bis(-2-Chloroethoxy)Me...	5.694	93	339097	84.467	ppm		99
42) 2,4-Dichlorophenol	5.806	162	225369	84.001	ppm		97
43) a,a-Dimethylphenethyla...	5.962	58	293348m	40.079	ppm		
44) 1,2,4-Trichlorobenzene	5.876	180	245615	80.374	ppm		97
45) Naphthalene	5.956	128	786213	81.716	ppm		100
46) 4-Chloroaniline	6.010	127	333476	82.760	ppm		98
47) 2,6-Dichlorophenol	6.015	162	220186	82.450	ppm		96
48) Hexachlorobutadiene	6.069	225	137787	79.760	ppm		96
49) Hexachloropropene	6.036	213	169233	82.736	ppm		97
50) 4-Chloro-3-methylphenol	6.475	107	227115	85.882	ppm		98
51) N-N-di-n-butylamine	6.325	84	174105	72.847	ppm		96
52) Caprolactam	6.368	113	73957	81.021	ppm		97
53) p-Phenylenediamine	6.363	80	40612	26.217	ppm		92
54) Safrole	6.534	162	206859	84.238	ppm		96
55) 2-Methylnaphthalene	6.619	142	527945	82.130	ppm		97
56) 1-Methylnaphthalene	6.716	142	487431	83.860	ppm		98
58) Hexachlorocyclopentadiene	6.769	237	152126	76.681	ppm		96
59) 1,2,4,5-Tetrachloroben...	6.780	216	250183	77.902	ppm		96
60) 1,2,3,4-Tetrachloroben...	7.058	216	220754	75.862	ppm		97
61) 2,4,6-Trichlorophenol	6.898	196	163020	78.736	ppm		96
62) 2,4,5-Trichlorophenol	6.940	196	154888	76.070	ppm		98
64) Isosafrole	7.037	104	98045	75.897	ppm		95
65) 1,1'-Biphenyl	7.074	154	634081	77.151	ppm		99
66) 2-Chloronaphthalene	7.095	162	502683	78.321	ppm		99
67) 2-Nitroaniline	7.202	65	142293	81.056	ppm		95
68) 1,4-Naphthoquinone	7.272	158	54641	80.980	ppm		88
69) m-Dinitrobenzene	7.411	168	80413	80.458	ppm		92
70) Acenaphthylene	7.502	152	793072	78.942	ppm		99
71) Dimethyl phthalate	7.379	163	529870	76.024	ppm		98
72) 2,6-Dinitrotoluene	7.438	165	136938	78.787	ppm		95
73) Acenaphthene	7.673	153	516589	77.271	ppm		100
74) 3-Nitroaniline	7.609	138	141766	83.155	ppm		98
75) 2,4-Dinitrophenol	7.711	184	53599	65.507	ppm		79
76) Dibenzofuran	7.844	168	695099	78.296	ppm		98
77) 2,4-Dinitrotoluene	7.834	165	183048	82.396	ppm		95
78) 4-Nitrophenol	7.785	65	115238	79.138	ppm		96
79) Pentachlorobenzene	7.801	250	220528	77.578	ppm		98
80) 1-Napthylamine	7.924	143	389129	74.832	ppm		100
81) 2-Napthylamine	8.005	143	432295	78.113	ppm		98
82) 2,3,4,6-Tetrachlorophenol	7.967	232	120977	74.280	ppm		97
83) Fluorene	8.181	166	571839	78.813	ppm		98
84) 4-Chlorophenyl-phenyle...	8.181	204	292512	77.058	ppm		94
85) Diethylphthalate	8.074	149	567284	77.220	ppm		99
86) 4-Nitroaniline	8.213	138	151457	78.994	ppm		97
87) 5-Nitro-o-toluidine	8.203	152	164397	82.005	ppm		93
89) Sulfotepp	8.459	322	94138	78.495	ppm		97
90) Octachlorocyclopentene	8.433	307	96918	78.910	ppm		96
92) Thionazin	8.154	107	87118	78.419	ppm		92
93) 4,6-Dinitro-2-methylph...	8.235	198	92211	76.864	ppm		93
94) Diphenylamine	8.304	169	847630	157.286	ppm		100
95) 1,2 Diphenylhydrazine	8.336	77	568633	75.279	ppm		97
96) N-Nitrosodiphenylamine	8.304	169	847630	157.281	ppm		100
97) 1,3,5-Trinirobenzene	8.577	213	48433	83.089	ppm	#	76
98) Diallate	8.582	86	189318	75.892	ppm		99

1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

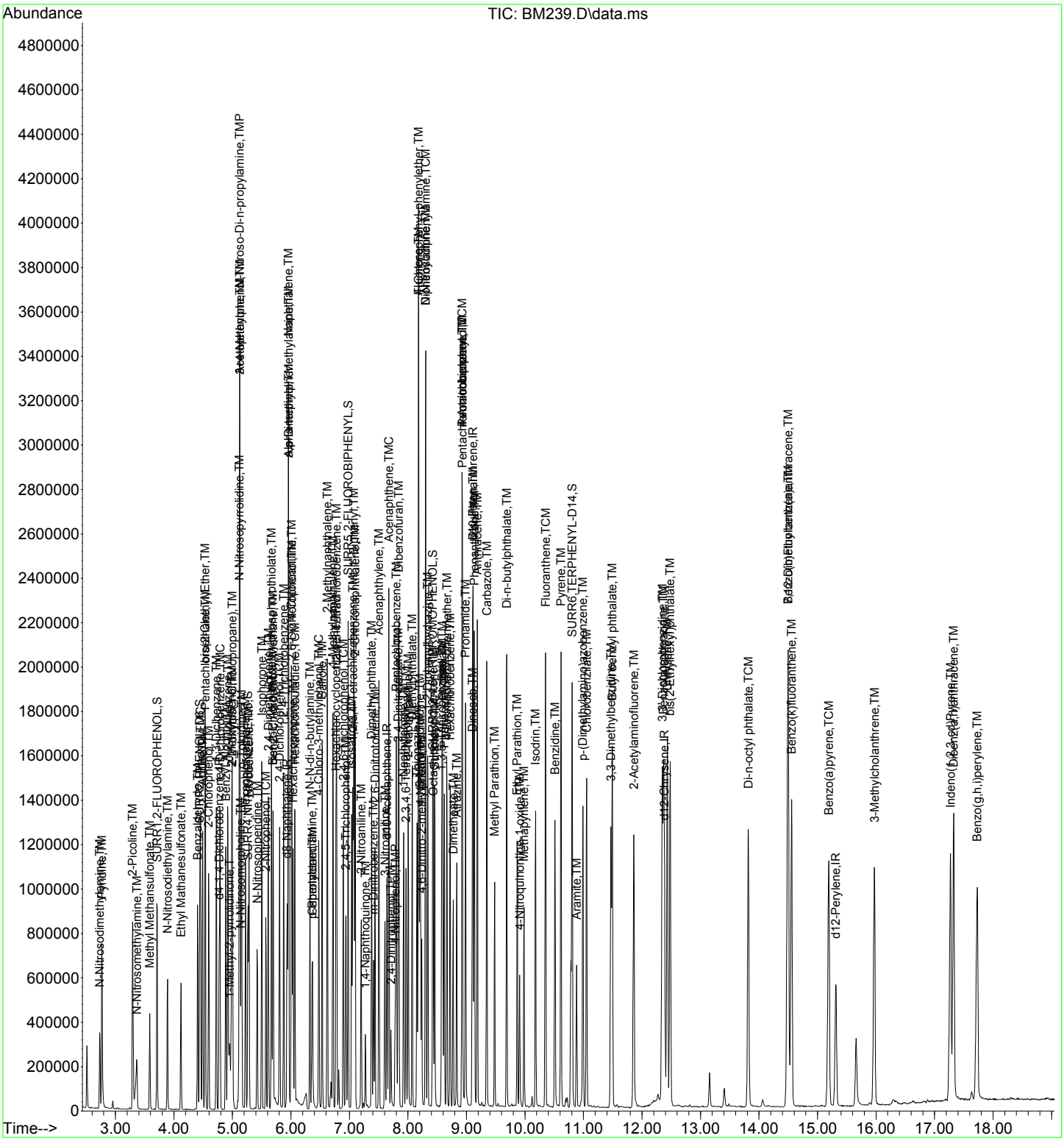
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.593	121	99938	80.051	ppm	98
100) Phenacetin	8.620	108	293147	81.827	ppm	96
101) 4-Bromophenyl-phenylether	8.668	248	169397	73.874	ppm	97
102) Hexachlorobenzene	8.721	284	183088	73.672	ppm	97
103) Dimethoate	8.775	87	176956	80.678	ppm	97
104) Atrazine	8.834	215	56277	78.065	ppm	94
105) Pentachlorophenol	8.925	266	78103	58.803	ppm	96
106) 4-Aminobiphenyl	8.925	169	492929	81.748	ppm	99
107) Pentachloronitrobenzene	8.930	237	74479	82.257	ppm	95
108) Pronamide	8.984	173	255826	83.003	ppm	99
109) Dinoseb	9.101	211	123457	75.953	ppm	98
110) Disulfoton	9.112	88	214532	75.721	ppm	97
111) Phenanthrene	9.133	178	764282	77.538	ppm	98
112) Anthracene	9.187	178	778620	79.652	ppm	99
113) Carbazole	9.347	167	767734	79.748	ppm	98
114) Di-n-butylphthalate	9.690	149	1022573	81.800	ppm	99
115) 4-Nitroquinonline-1-oxide	9.909	190	59591	78.676	ppm	94
116) Fluoranthene	10.353	202	891155	83.511	ppm	99
118) Methyl Parathion	9.481	109	148522	83.288	ppm	95
119) Ethyl Parathion	9.866	97	116698	83.126	ppm	97
120) Methapyrilene	9.984	58	225801	74.913	ppm	100
121) Isodrin	10.182	193	84817	76.227	ppm	92
122) Benzidine	10.513	184	527864	76.594	ppm	97
123) Pyrene	10.615	202	904860	79.165	ppm	99
125) Aramite	10.882	185	110095m	77.601	ppm	
126) p-(Dimethylamino)azobe...	10.989	120	249721	78.648	ppm	98
127) Chlorobenzilate	11.053	139	296730	78.893	ppm	97
128) Butyl benzyl phthalate	11.492	149	461560	81.334	ppm	97
129) 3,3-Dimethylbenzidine	11.471	212	529632	80.814	ppm	99
130) 2-Acetylaminofluorene	11.861	181	377394	81.308	ppm	96
131) 3,3'-Dichlorobenzidine	12.348	252	369182	79.809	ppm	98
132) Benzo(a)anthracene	12.369	228	867600	78.857	ppm	99
133) Chrysene	12.433	228	830545	78.434	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.482	149	668961	81.139	ppm	96
136) Di-n-octyl phthalate	13.819	149	1053517	84.037	ppm	98
137) 7,12-Dimethylbenz(a)an...	14.498	256	401293	83.930	ppm	93
138) Benzo(b)Fluoranthene	14.498	252	925325	83.774	ppm	99
139) Benzo(k)fluoranthene	14.557	252	901386	84.738	ppm	95
140) Benzo(a)pyrene	15.193	252	820576	84.751	ppm	97
141) 3-Methylcholanthrene	15.974	268	456888	82.566	ppm	97
142) Indeno(1,2,3-cd)Pyrene	17.274	276	790985	82.846	ppm	98
143) Dibenz(a,h)anthracene	17.327	278	834573	82.233	ppm	96
144) Benzo(g,h,i)perylene	17.729	276	770569	82.649	ppm	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st DM 10/31/17
2nd MP 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM239.D
Acq On : 30 Oct 2017 10:01 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

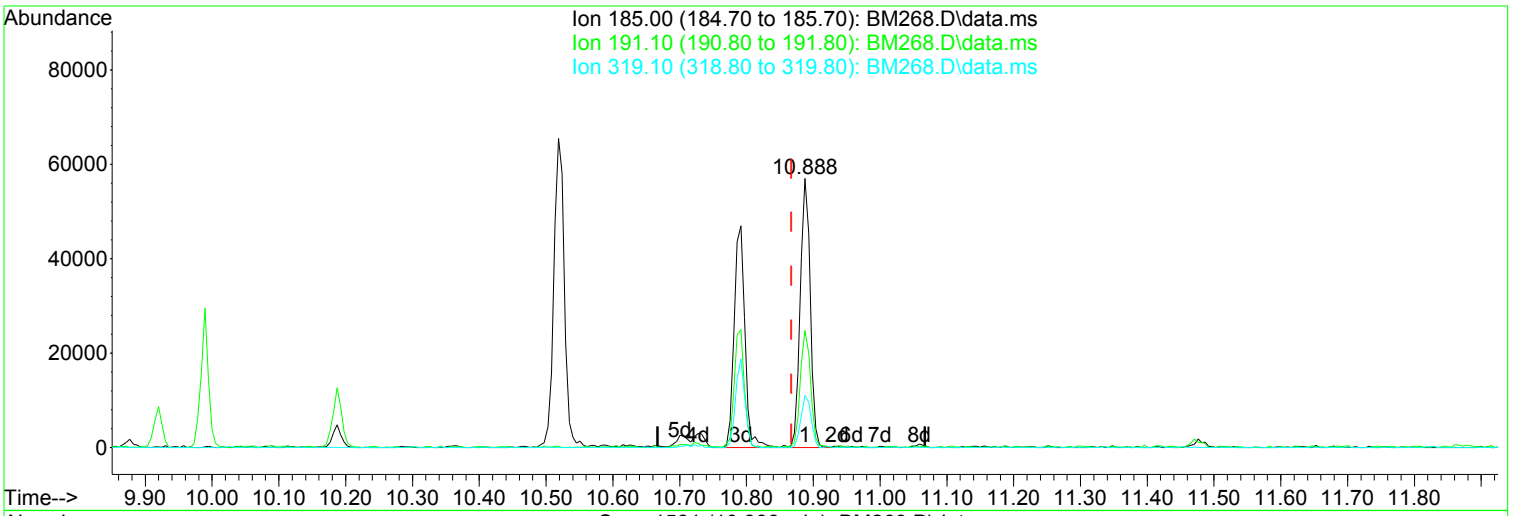
Quant Time: Oct 30 10:35:59 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

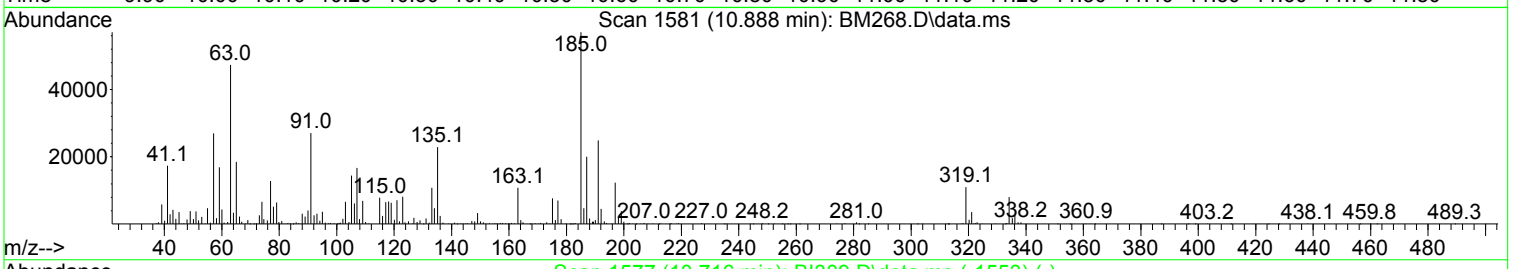


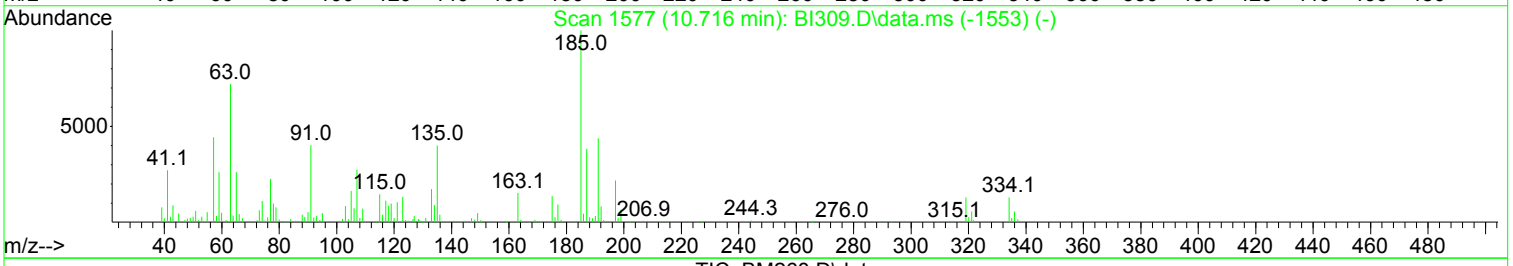
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration







TIC: BM268.D\data.ms

(125) Aramite (TM)

10.888min (+ 0.020) 79.72 ppm m

response 111180

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	43.57
319.10	22.50	19.37
0.00	0.00	0.00

Manual Integration:

After

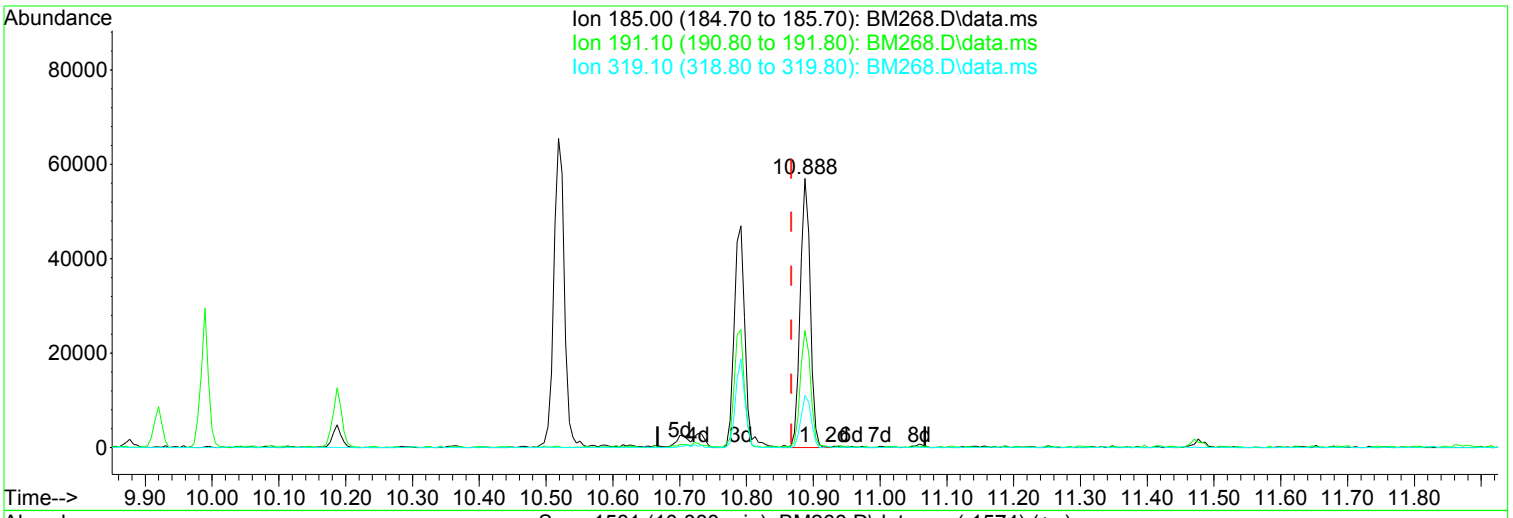
Split Peak.

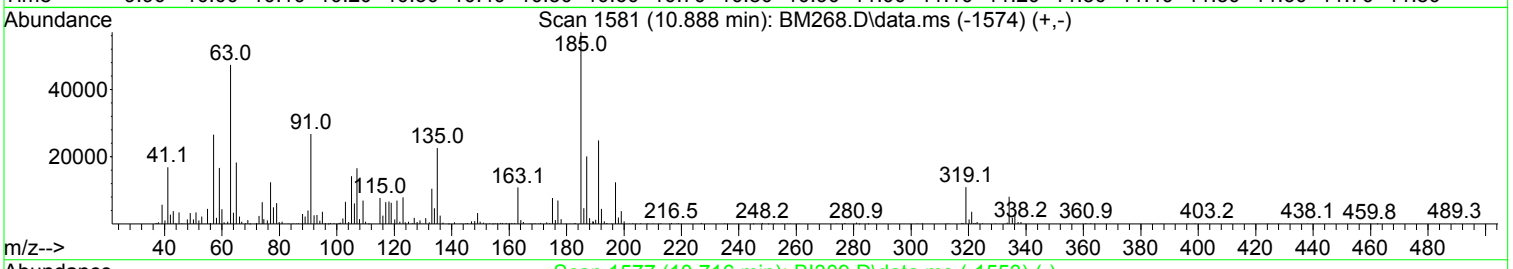
11/01/17

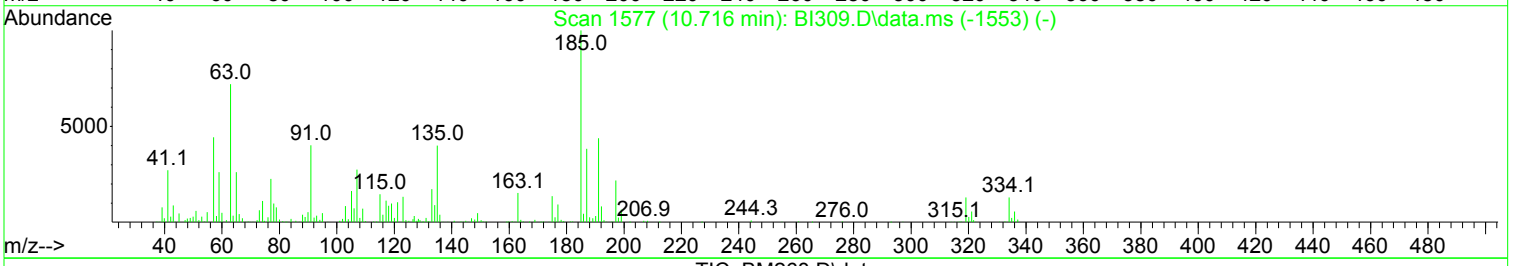
1st 11/01/17
2nd 11/01/17

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration







TIC: BM268.D\data.ms

(125) Aramite (TM)

10.888min (+ 0.020) 42.23 ppm

response 58894

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	43.50
319.10	22.50	19.18
0.00	0.00	0.00

Manual Integration:

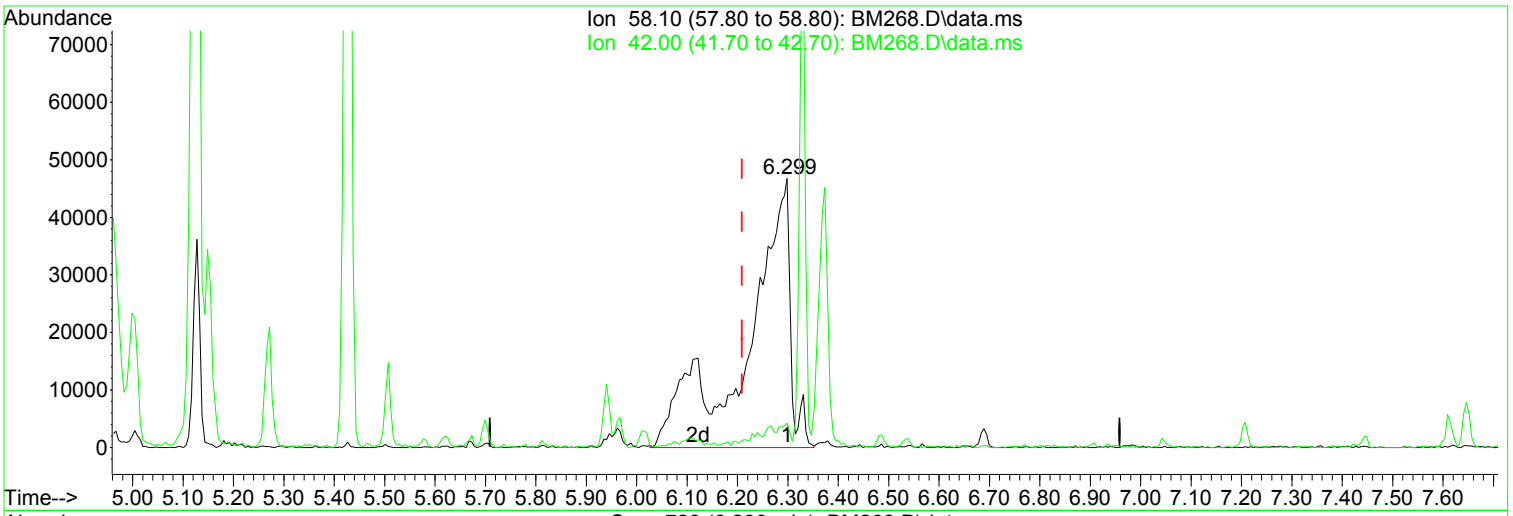
Before

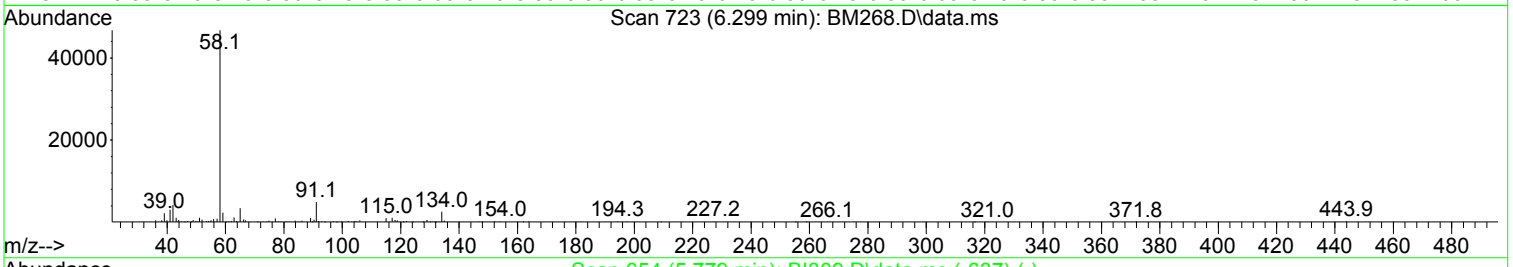
11/01/17

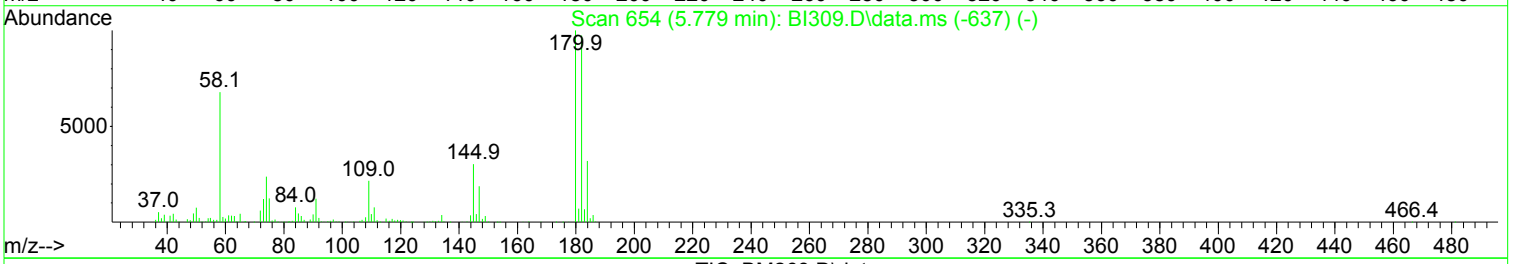
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration







TIC: BM268.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.299min (+ 0.089) 39.18 ppm m

response 275238

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	9.08
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

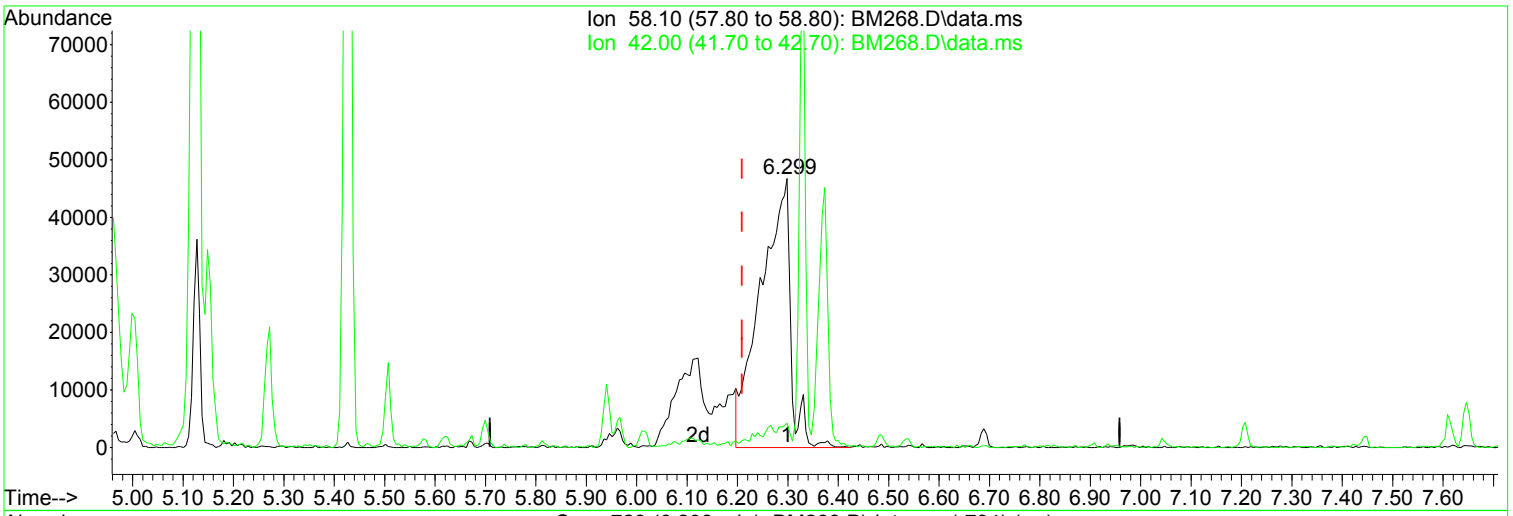
Poor integration.

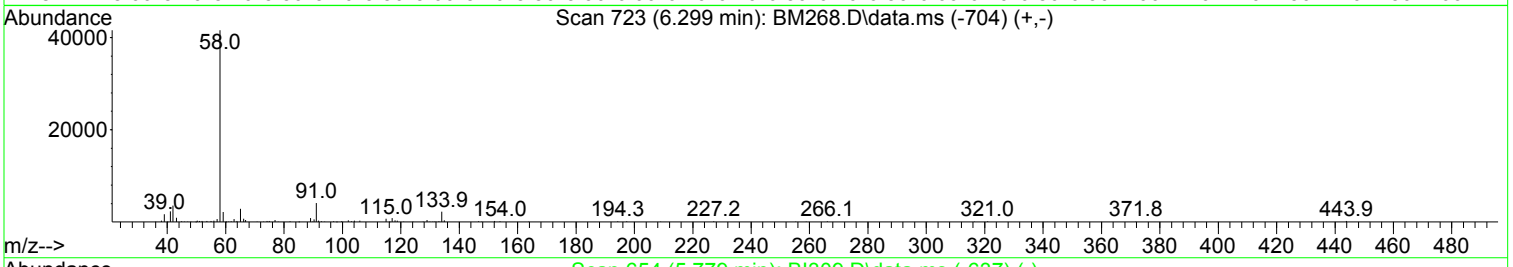
11/01/17

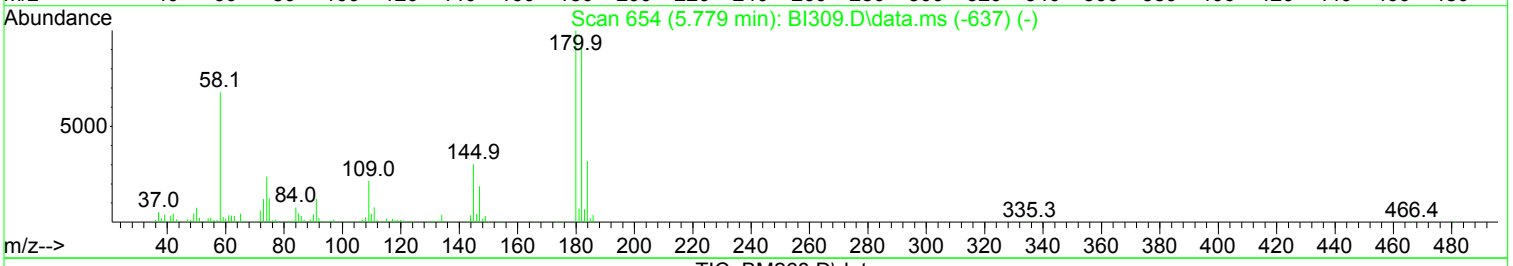
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration







TIC: BM268.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.299min (+ 0.089) 27.37 ppm

response 192269

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	8.51
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

11/01/17

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	1.000	1.000	0.0	102	0.00
2	TM	Pyridine	1.298	1.495	-15.2	112	0.00
3	TM	N-Nitrosodimethylamine	0.698	0.810	-16.0	114	0.00
4	TM	2-Picoline	1.382	1.539	-11.4	112	0.00
5	TM	N-Nitrosomethylamine	0.745	0.774	-3.9	107	0.00
6	TM	Methyl Methansulfonate	0.702	0.752	-7.1	107	0.00
7	S	SURR1,2-FLUOROPHENOL	1.339	1.483	-10.8	111	0.01
8	TM	N-Nitrosodiethylamine	0.610	0.650	-6.6	107	0.00
9	TM	Ethyl Mathanesulfonate	0.968	1.054	-8.9	107	0.00
10	TM	Benzaldehyde	0.783	0.873	-11.5	128	0.00
11	TM	Aniline	2.094	2.214	-5.7	105	0.00
12	S	SURR2,PHENOL-D6	1.582	1.715	-8.4	109	0.01
13	TMC	Phenol	1.652	1.759	-6.5	107	0.02
14	TM	bis(2-Clethyl)Ether	1.312	1.408	-7.3	109	0.00
15	TM	Pentachloroethane	0.494	0.512	-3.6	104	0.00
16	TM	2-Chlorophenol	1.368	1.478	-8.0	109	0.00
17	TM	1,3-Diclbenzene	1.490	1.524	-2.3	101	0.00
18	TMC	1,4-Dichlorobenzene	1.487	1.545	-3.9	101	0.00
19	TM	1,2-Diclbenzene	1.434	1.470	-2.5	104	0.00
20	TM	Benzyl Alcohol	1.133	1.195	-5.5	105	0.00
21	T	1-Methyl-2-pyrrolidinone	0.833	0.895	-7.4	103	0.01
22	TM	2,2'-oxybis(1-Chloropropane	1.894	1.917	-1.2	106	0.00
23	TM	2-Methylphenol	1.149	1.208	-5.1	105	0.02
24	TM	3+4-Methylphenol	1.297	1.362	-5.0	109	0.01
25	TM	Acetophenone	1.810	1.902	-5.1	108	0.00
26	TMP	N-Nitroso-Di-n-propylamine	0.998	1.051	-5.3	110	0.00
27	TM	N-Nitrosopyrrolidine	0.663	0.701	-5.7	110	0.00
28	TM	N-Nitrosomorpholine	0.836	0.839	-0.4	106	0.00
29	TM	o-Toluidine	2.021	2.059	-1.9	104	0.00
30	TM	Hexachloroethane	0.619	0.639	-3.2	106	0.00
31	TM	o,o,o-Triethylphosphorothio	0.569	0.603	-6.0	102	0.00
32	TM	Alpha-terpinol	0.518	0.527	-1.7	93	0.00
33	IR	d8-Naphthalene	1.000	1.000	0.0	102	0.00
34	S	SURR4,NITROBENZENE-D5	0.360	0.370	-2.8	107	0.00
35	TM	Nitrobenzene	0.401	0.412	-2.7	108	0.00
36	TM	N-Nitrosopiperidine	0.240	0.238	0.8	103	0.00
37	TM	Isophorone	0.725	0.747	-3.0	108	0.00
38	TCM	2-Nitrophenol	0.180	0.195	-8.3	108	0.00
39	TM	Benzoic Acid	0.188	0.174	7.4	100	0.01
40	TM	2,4-Dimethylphenol	0.340	0.356	-4.7	107	0.01
41	TM	bis(-2-Chloroethoxy)Methane	0.424	0.428	-0.9	106	0.00
42	TCM	2,4-Dichlorophenol	0.284	0.280	1.4	95	0.00
43	TM	a,a-Dimethylphenethylamine	0.774	0.758	2.1	98	0.09
44	TM	1,2,4-Trichlorobenzene	0.323	0.312	3.4	94	0.00
45	TM	Naphthalene	1.017	1.000	1.7	96	0.00
46	TM	4-Chloroaniline	0.426	0.420	1.4	96	0.00
47	TM	2,6-Dichlorophenol	0.282	0.278	1.4	96	0.00
48	TCM	Hexachlorobutadiene	0.183	0.188	-2.7	100	0.00
49	TM	Hexachloropropene	0.216	0.223	-3.2	97	0.00
50	TMC	4-Chloro-3-methylphenol	0.279	0.293	-5.0	100	0.01
51	TM	N-N-di-n-butylamine	0.253	0.224	11.5	95	0.00

1st DM 11/01/17
2nd MP 11/01/17

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)	
52	TM	Caprolactam	0.096	0.098		-2.1	100	0.01	
53	TM	p-Phenylenediamine	0.164	0.045		72.6#	30#	0.00	OK wrong spike amount
54	TM	Safrole	0.260	0.263		-1.2	96	0.00	
55	TM	2-Methylnaphthalene	0.679	0.688		-1.3	99	0.00	
56	TM	1-Methylnaphthalene	0.614	0.640		-4.2	102	0.00	
57	IR	d10-Acenaphthene	1.000	1.000		0.0	124	0.00	
58	TPM	Hexachlorocyclopentadiene	0.401	0.338		15.7	92	0.00	
59	TM	1,2,4,5-Tetrachlorobenzene	0.650	0.572		12.0	101	0.00	
60	TM	1,2,3,4-Tetrachlorobenzene	0.589	0.533		9.5	106	0.00	
61	TCM	2,4,6-Trichlorophenol	0.419	0.377		10.0	101	0.00	
62	TM	2,4,5-Trichlorophenol	0.412	0.381		7.5	111	0.02	
63	S	SURR5,2-FLUOROBIPHENYL	1.513	1.365		9.8	106	0.00	
64	TM	Isosafrole	0.261	0.236		9.6	106	0.00	
65	TM	1,1'-Biphenyl	1.663	1.472		11.5	103	0.00	
66	TM	2-Chloronaphthalene	1.299	1.166		10.2	108	0.00	
67	TM	2-Nitroaniline	0.355	0.338		4.8	112	0.00	
68	TM	1,4-Naphthoquinone	0.137	0.139		-1.5	124	0.01	
69	TM	m-Dinitrobenzene	0.202	0.189		6.4	106	0.01	
70	TM	Acenaphthylene	2.033	2.006		1.3	119	0.00	
71	TM	Dimethyl phthalate	1.410	1.244		11.8	108	0.00	
72	TM	2,6-Dinitrotoluene	0.352	0.318		9.7	105	0.00	
73	TMC	Acenaphthene	1.353	1.274		5.8	106	0.00	
74	TM	3-Nitroaniline	0.345	0.358		-3.8	116	0.00	
75	TPM	2,4-Dinitrophenol	0.161	0.140	15.9	~~13.0~~	93	0.01	
76	TM	Dibenzofuran	1.796	1.711		4.7	112	0.00	
77	TM	2,4-Dinitrotoluene	0.450	0.459		-2.0	110	0.00	
78	TMP	4-Nitrophenol	0.295	0.280		5.1	112	0.02	
79	TM	Pentachlorobenzene	0.575	0.541		5.9	110	0.00	
80	TM	1-Napthylamine	1.052	0.960		8.7	110	0.00	
81	TM	2-Napthylamine	1.120	1.025		8.5	103	0.00	
82	TM	2,3,4,6-Tetrachlorophenol	0.330	0.296		10.3	107	0.01	
83	TM	Fluorene	1.468	1.318		10.2	109	0.00	
84	TM	4-Chlorophenyl-phenylether	0.768	0.673		12.4	108	0.00	
85	TM	Diethylphthalate	1.487	1.321		11.2	106	0.00	
86	TM	4-Nitroaniline	0.388	0.357		8.0	101	0.01	
87	TM	5-Nitro-o-toluidine	0.406	0.385		5.2	106	0.00	
88	S	SURR3,2,4,6-TRIBROMOPHENOL	0.267	0.258		3.4	114	0.01	
89	TM	Sulfotepp	0.243	0.246		-1.2	118	0.00	
90	TM	Octachlorocyclopentene	0.249	0.244		2.0	106	0.00	
91	IR	d10-Phenanthrene	1.000	1.000		0.0	104	0.00	
92	TM	Thionazin	0.123	0.119		3.3	104	0.00	
93	TM	4,6-Dinitro-2-methylphenol	0.128	0.132	0.9	~~3.1~~	107	0.01	
94	TM	Diphenylamine	0.597	0.575		3.7	102	0.00	
95	TM	1,2 Diphenylhydrazine	0.837	0.776		7.3	95	0.00	
96	TCM	N-Nitrosodiphenylamine	0.597	0.575		3.7	102	0.00	
97	TM	1,3,5-Trinirobenzene	0.065	0.072		-10.8	117	0.02	
98	TM	Diallate	0.277	0.276		0.4	113	0.00	
99	TM	Phorate	0.138	0.145		-5.1	110	0.00	
100	TM	Phenacetin	0.397	0.430		-8.3	115	0.00	
101	TM	4-Bromophenyl-phenylether	0.254	0.241		5.1	110	0.00	

1st DM 11/01/17
2nd MP 11/01/17

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%D	%Dev	Area%	Dev(min)
102	TM	Hexachlorobenzene	0.275	0.259		5.8	105	0.00
103	TM	Dimethoate	0.243	0.244		-0.4	99	0.00
104	TM	Atrazine	0.080	0.071		11.3	121	0.00
105	TCM	Pentachlorophenol	0.150	0.122	18.1	~~18.7~~	81	0.01
106	TM	4-Aminobiphenyl	0.668	0.711		-6.4	110	0.00
107	TM	Pentachloronitrobenzene	0.100	0.111		-11.0	114	0.00
108	TM	Pronamide	0.342	0.368		-7.6	111	0.00
109	TM	Dinoseb	0.180	0.176		2.2	101	0.00
110	TM	Disulfoton	0.314	0.292		7.0	98	0.00
111	TM	Phenanthrene	1.093	1.077		1.5	102	0.00
112	TM	Anthracene	1.084	1.097		-1.2	103	0.00
113	TM	Carbazole	1.067	1.158		-8.5	110	0.01
114	TM	Di-n-butylphthalate	1.386	1.451		-4.7	104	0.00
115	TM	4-Nitroquinonline-1-oxide	0.084	0.091		-8.3	108	0.01
116	TCM	Fluoranthene	1.183	1.286		-8.7	115	0.01
117	IR	d12-Chrysene	1.000	1.000		0.0	121	0.02
118	TM	Methyl Parathion	0.192	0.210		-9.4	107	0.00
119	TM	Ethyl Parathion	0.151	0.159		-5.3	114	0.00
120	TM	Methapyrilene	0.324	0.302		6.8	108	0.00
121	TM	Isodrin	0.120	0.114		5.0	107	0.00
122	TM	Benzidine	0.741	0.715		3.5	100	0.00
123	TM	Pyrene	1.229	1.236		-0.6	114	0.01
124	S	SURR6,TERPHENYL-D14	0.909	0.875		3.7	110	0.00
125	TM	Aramite	0.153	0.152		0.7	117	0.02
126	TM	p-(Dimethylamino)azobenzene	0.341	0.358		-5.0	121	0.01
127	TM	Chlorobenzilate	0.404	0.423		-4.7	121	0.00
128	TM	Butyl benzyl phthalate	0.610	0.641		-5.1	120	0.00
129	TM	3,3-Dimethylbenzidine	0.705	0.746		-5.8	113	0.01
130	TM	2-Acetylaminofluorene	0.499	0.529		-6.0	114	0.02
131	TM	3,3'-Dichlorobenzidine	0.497	0.499		-0.4	111	0.02
132	TM	Benzo(a)anthracene	1.183	1.167		1.4	116	0.02
133	TM	Chrysene	1.139	1.107		2.8	113	0.02
134	TM	bis(2-Ethylhexyl)phthalate	0.887	0.923		-4.1	122	0.00
135	IR	d12-Perylene	1.000	1.000		0.0	120	0.03
136	TCM	Di-n-octyl phthalate	1.377	1.407		-2.2	110	0.00
137	TM	7,12-Dimethylbenz(a)anthrac	0.525	0.529		-0.8	109	0.02
138	TM	Benzo(b)Fluoranthene	1.213	1.221		-0.7	110	0.03
139	TM	Benzo(k)fluoranthene	1.168	1.197		-2.5	111	0.02
140	TCM	Benzo(a)pyrene	1.063	1.102		-3.7	114	0.03
141	TM	3-Methylcholanthrene	0.608	0.620		-2.0	118	0.03
142	TM	Indeno(1,2,3-cd)Pyrene	1.049	1.094		-4.3	125	0.03
143	TM	Dibenz(a,h)anthracene	1.115	1.168		-4.8	122	0.03
144	TM	Benzo(g,h,i)perylene	1.024	1.167		-14.0	132	0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

1st DM 11/01/17
2nd MP 11/01/17

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.780	152	91693	40.00	ppm		0.00
33) d8-Naphthalene	5.940	136	363291	40.00	ppm		0.00
57) d10-Acenaphthene	7.646	164	200993	40.00	ppm		0.00
91) d10-Phenanthrene	9.117	188	340406	40.00	ppm		0.00
117) d12-Chrysene	12.401	240	365649	40.00	ppm		0.02
135) d12-Perylene	15.338	264	368678	40.00	ppm		0.03
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.721	112	272036	88.61	ppm		0.01
Spiked Amount 200.000	Range 10 - 105		Recovery = 44.31%				
12) SURR2,PHENOL-D6	4.448	99	314543	86.73	ppm		0.01
Spiked Amount 200.000	Range 10 - 107		Recovery = 43.37%				
34) SURR4,NITROBENZENE-D5	5.272	82	268797	82.19	ppm		0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 82.19%				
63) SURR5,2-FLUOROBIPHENYL	6.983	172	548524	72.17	ppm		0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 72.17%				
88) SURR3,2,4,6-TRIBROMOPH...	8.433	330	103636	77.12	ppm		0.01
Spiked Amount 200.000	Range 28 - 157		Recovery = 38.56%				
124) SURR6,TERPHENYL-D14	10.813	244	640137	77.01	ppm		0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 77.01%				
Target Compounds							Qvalue
2) Pyridine	2.774	79	274218	92.126	ppm		99
3) N-Nitrosodimethylamine	2.742	74	148609	92.893	ppm		92
4) 2-Picoline	3.298	93	282152	89.034	ppm		97
5) N-Nitrosomethylamine	3.368	42	141978	83.190	ppm		97
6) Methyl Methansulfonate	3.592	80	137989	85.702	ppm		97
8) N-Nitrosodiethylamine	3.897	102	119246	85.258	ppm		94
9) Ethyl Mathanesulfonate	4.122	79	193217	87.059	ppm		96
10) Benzaldehyde	4.411	106	160086	89.224	ppm		97
11) Aniline	4.496	93	405982	84.562	ppm		100
13) Phenol	4.464	94	322516	85.188	ppm		97
14) bis(2-Clethyl)Ether	4.539	93	258270	85.853	ppm		98
15) Pentachloroethane	4.539	117	93912	82.904	ppm		98
16) 2-Chlorophenol	4.598	128	271019	86.401	ppm		99
17) 1,3-Diclbenzene	4.731	146	279508	81.860	ppm		99
18) 1,4-Dichlorobenzene	4.790	146	283286	83.086	ppm		99
19) 1,2-Diclbenzene	4.924	146	269524	81.967	ppm		96
20) Benzyl Alcohol	4.892	79	219173	84.379	ppm		100
21) 1-Methyl-2-pyrrolidinone	4.956	99	164074	85.929	ppm		99
22) 2,2'-oxybis(1-Chloropr...	5.004	45	351635	80.989	ppm	#	84
23) 2-Methylphenol	4.999	108	221462	84.083	ppm		89
24) 3+4-Methylphenol	5.133	108	249830	84.061	ppm		98
25) Acetophenone	5.127	105	348723	84.037	ppm		88
26) N-Nitroso-Di-n-propyla...	5.127	70	192822	84.300	ppm		97
27) N-Nitrosopyrrolidine	5.122	100	128637	84.697	ppm	#	47
28) N-Nitrosomorpholine	5.149	56	153786	80.283	ppm		98
29) o-Toluidine	5.159	106	377616	81.524	ppm		92
30) Hexachloroethane	5.229	117	117153	82.537	ppm		92
31) o,o,o-Triethylphosphor...	5.673	198	110507	84.778	ppm		88
32) Alpha-terpinol	5.967	121	96689	81.377	ppm		97
35) Nitrobenzene	5.288	77	299635	82.322	ppm		98
36) N-Nitrosopiperidine	5.427	42	173058	79.448	ppm		98
37) Isophorone	5.507	82	542797	82.464	ppm		100
38) 2-Nitrophenol	5.577	139	141620	86.746	ppm		99

1st DM 11/01/17
2nd MP 11/01/17

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.705	105	126775	74.175	ppm		96
40) 2,4-Dimethylphenol	5.619	107	258300	83.644	ppm		96
41) bis(-2-Chloroethoxy)Me...	5.700	93	310636	80.610	ppm		99
42) 2,4-Dichlorophenol	5.812	162	203686	79.091	ppm		99
43) a,a-Dimethylphenethyla...	6.299	58	275238m	39.175	ppm		
44) 1,2,4-Trichlorobenzene	5.881	180	226832	77.328	ppm		97
45) Naphthalene	5.962	128	726437	78.657	ppm		99
46) 4-Chloroaniline	6.015	127	305437	78.968	ppm		98
47) 2,6-Dichlorophenol	6.020	162	202135	78.853	ppm		94
48) Hexachlorobutadiene	6.069	225	136390	82.250	ppm		96
49) Hexachloropropene	6.042	213	161691	82.351	ppm		99
50) 4-Chloro-3-methylphenol	6.486	107	212616	83.758	ppm		98
51) N-N-di-n-butylamine	6.331	84	163084	71.086	ppm		95
52) Caprolactam	6.373	113	71005	81.037	ppm		89
53) p-Phenylenediamine	6.363	80	32365	21.766	ppm		91
54) Safrole	6.539	162	191360	81.181	ppm		98
55) 2-Methylnaphthalene	6.630	142	499633	80.973	ppm		96
56) 1-Methylnaphthalene	6.726	142	464718	83.292	ppm		97
58) Hexachlorocyclopentadiene	6.775	237	135782	67.314	ppm		94
59) 1,2,4,5-Tetrachloroben...	6.791	216	230022	70.443	ppm		99
60) 1,2,3,4-Tetrachloroben...	7.069	216	214302	72.431	ppm		97
61) 2,4,6-Trichlorophenol	6.903	196	151710	72.065	ppm		97
62) 2,4,5-Trichlorophenol	6.951	196	153101	73.953	ppm		96
64) Isosafrole	7.042	104	94710	72.107	ppm		99
65) 1,1'-Biphenyl	7.080	154	591605	70.796	ppm		99
66) 2-Chloronaphthalene	7.106	162	468574	71.803	ppm		97
67) 2-Nitroaniline	7.208	65	135901	76.139	ppm		95
68) 1,4-Naphthoquinone	7.283	158	55757	81.272	ppm		95
69) m-Dinitrobenzene	7.422	168	76121	74.908	ppm		90
70) Acenaphthylene	7.513	152	806198	78.926	ppm		100
71) Dimethyl phthalate	7.384	163	499896	70.541	ppm		99
72) 2,6-Dinitrotoluene	7.443	165	127918	72.384	ppm		83
73) Acenaphthene	7.679	153	512077	75.334	ppm		98
74) 3-Nitroaniline	7.614	138	143831	82.975	ppm		99
75) 2,4-Dinitrophenol	7.721	184	56260	67.245	ppm		92
76) Dibenzofuran	7.850	168	687892	76.207	ppm		98
77) 2,4-Dinitrotoluene	7.844	165	184527	81.693	ppm		94
78) 4-Nitrophenol	7.796	65	112491	75.978	ppm		96
79) Pentachlorobenzene	7.807	250	217366	75.206	ppm		96
80) 1-Napthylamine	7.935	143	385895	72.987	ppm		97
81) 2-Napthylamine	8.010	143	411931	73.206	ppm		98
82) 2,3,4,6-Tetrachlorophenol	7.978	232	119007	71.866	ppm		100
83) Fluorene	8.192	166	529968	71.838	ppm		100
84) 4-Chlorophenyl-phenyle...	8.187	204	270508	70.087	ppm		95
85) Diethylphthalate	8.074	149	530971	71.085	ppm		99
86) 4-Nitroaniline	8.224	138	143384	73.551	ppm		94
87) 5-Nitro-o-toluidine	8.208	152	154632	75.863	ppm		95
89) Sulfotepp	8.459	322	98835	81.053	ppm		83
90) Octachlorocyclopentene	8.433	307	97988	78.466	ppm		97
92) Thionazin	8.160	107	80806	77.109	ppm		93
93) 4,6-Dinitro-2-methylph...	8.246	198	89960	79.241	ppm		94
94) Diphenylamine	8.310	169	783220	154.070	ppm		99
95) 1,2 Diphenylhydrazine	8.342	77	528076	74.112	ppm		99
96) N-Nitrosodiphenylamine	8.310	169	783220	154.065	ppm		99
97) 1,3,5-Trinirobenzene	8.599	213	49315	89.687	ppm	#	1
98) Diallate	8.588	86	187830	79.822	ppm		90

1st 11/01/17
2nd 11/01/17

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

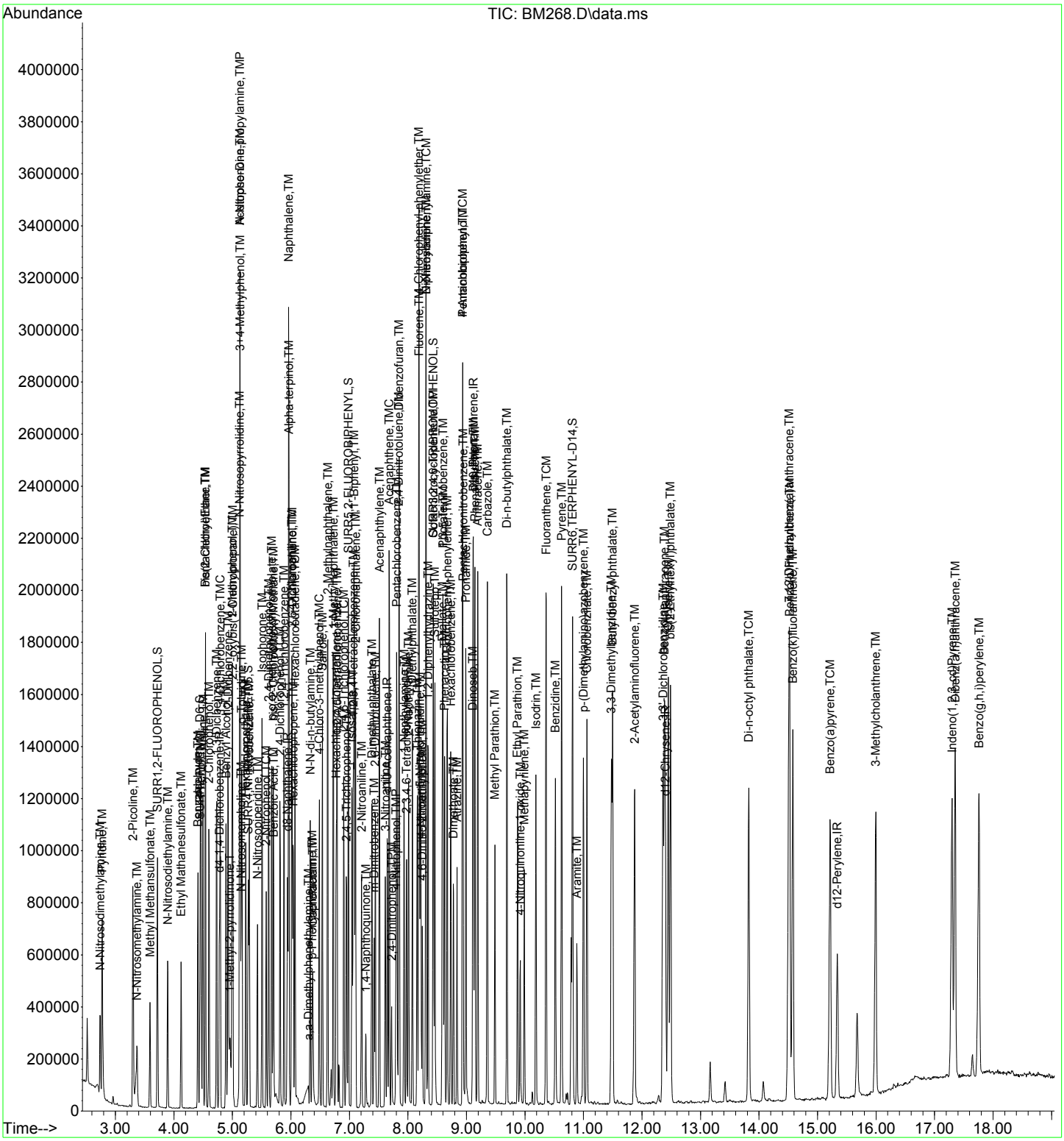
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99) Phorate	8.599	121	98420	83.574	ppm	#	65
100) Phenacetin	8.625	108	292701	86.614	ppm		98
101) 4-Bromophenyl-phenylether	8.673	248	164073	75.853	ppm		96
102) Hexachlorobenzene	8.732	284	176616	75.339	ppm		97
103) Dimethoate	8.775	87	166138	80.299	ppm		99
104) Atrazine	8.839	215	48076	70.698	ppm		91
105) Pentachlorophenol	8.935	266	83236	65.490	ppm		98
106) 4-Aminobiphenyl	8.935	169	484368	85.157	ppm		98
107) Pentachloronitrobenzene	8.941	237	75231	88.082	ppm		98
108) Pronamide	8.989	173	250325	86.100	ppm		97
109) Dinoseb	9.107	211	120145	78.358	ppm		96
110) Disulfoton	9.117	88	198549	74.292	ppm		96
111) Phenanthrene	9.144	178	732931	78.827	ppm		99
112) Anthracene	9.192	178	746949	81.005	ppm		97
113) Carbazole	9.358	167	788275	86.803	ppm		98
114) Di-n-butylphthalate	9.690	149	988025	83.787	ppm		99
115) 4-Nitroquinonline-1-oxide	9.920	190	62075	86.882	ppm		94
116) Fluoranthene	10.364	202	875686	86.994	ppm		99
118) Methyl Parathion	9.486	109	153337	87.471	ppm		95
119) Ethyl Parathion	9.871	97	115979	84.038	ppm		98
120) Methapyrilene	9.989	58	220954	74.569	ppm		98
121) Isodrin	10.187	193	83070	75.944	ppm		89
122) Benzidine	10.519	184	522598	77.137	ppm		99
123) Pyrene	10.626	202	904150	80.467	ppm		99
125) Aramite	10.888	185	111180m	79.716	ppm		
126) p-(Dimethylamino)azobe...	11.000	120	261985	83.933	ppm		95
127) Chlorobenzilate	11.059	139	309483	83.702	ppm		95
128) Butyl benzyl phthalate	11.497	149	468816	84.037	ppm		97
129) 3,3-Dimethylbenzidine	11.476	212	545745	84.708	ppm		97
130) 2-Acetylaminofluorene	11.877	181	386563	84.719	ppm		98
131) 3,3'-Dichlorobenzidine	12.359	252	364682	80.195	ppm		99
132) Benzo(a)anthracene	12.385	228	853593	78.921	ppm		98
133) Chrysene	12.450	228	809566	77.771	ppm		99
134) bis(2-Ethylhexyl)phtha...	12.487	149	674855	83.265	ppm		97
136) Di-n-octyl phthalate	13.824	149	1037733	81.771	ppm		99
137) 7,12-Dimethylbenz(a)an...	14.514	256	389898	80.554	ppm		96
138) Benzo(b)Fluoranthene	14.525	252	900598	80.543	ppm		98
139) Benzo(k)fluoranthene	14.578	252	882968	81.996	ppm		96
140) Benzo(a)pyrene	15.215	252	812550	82.900	ppm		99
141) 3-Methylcholanthrene	15.996	268	457063	81.593	ppm		98
142) Indeno(1,2,3-cd)Pyrene	17.301	276	806703	83.464	ppm		96
143) Dibenz(a,h)anthracene	17.354	278	861058	83.810	ppm		99
144) Benzo(g,h,i)perylene	17.761	276	860304	91.151	ppm		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 11/01/17
2nd 11/01/17

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM268.D
Acq On : 31 Oct 2017 6:54 am
Operator : J.Misiurewicz
Sample : CCV
Misc : 80 ppm STD 8270D
ALS Vial : 3 Sample Multiplier: 1

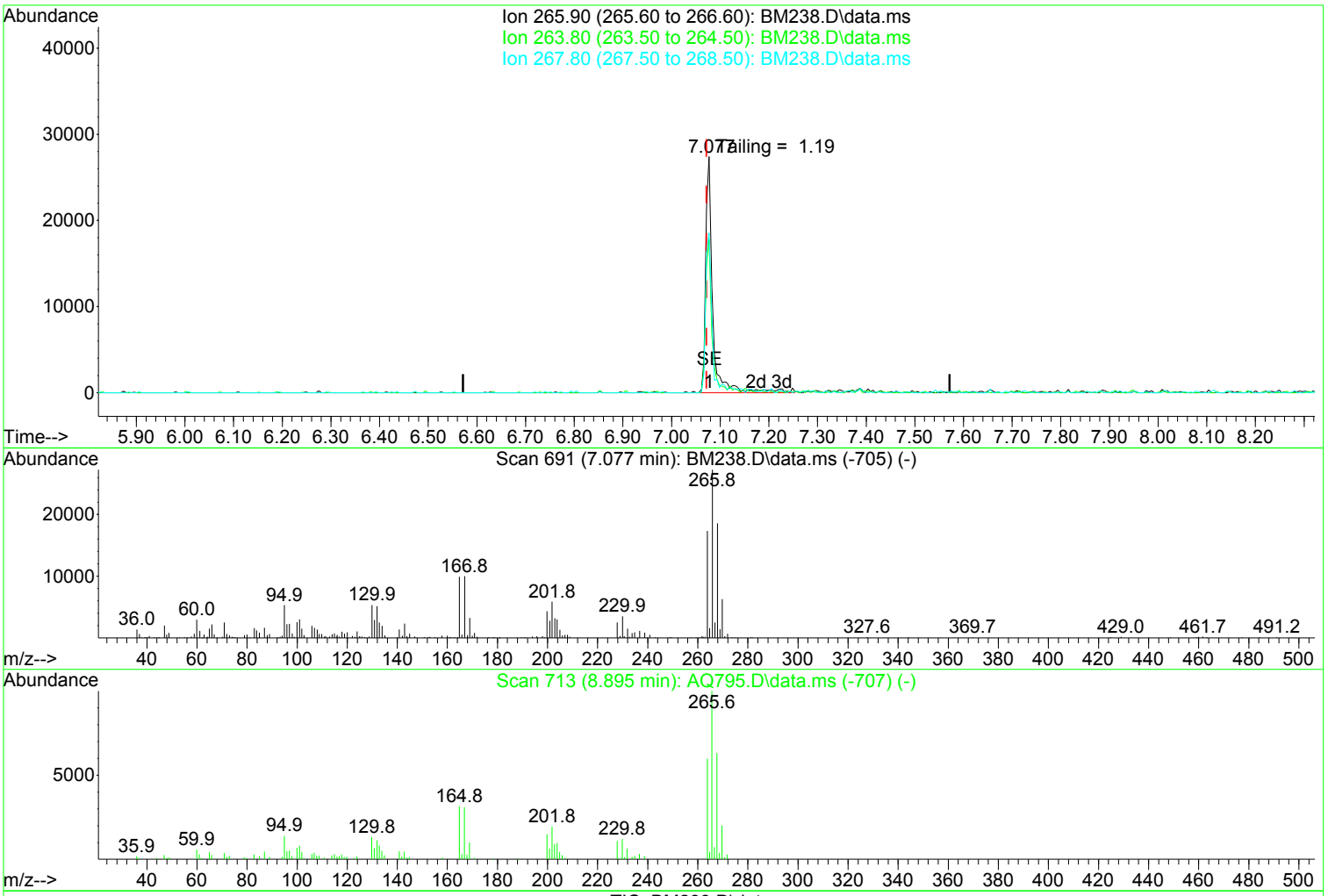
Quant Time: Oct 31 07:14:45 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM238.D
Acq On : 30 Oct 2017 9:43 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 30 10:17:04 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration



TIC: BM238.D\data.ms

(5) Pentachlorophenol (TCM)

7.077min (+ 0.005) 29.09 ppm

response 25918

Ion	Exp%	Act%
265.90	100.00	100.00
263.80	57.70	65.23
267.80	58.60	67.82
0.00	0.00	0.00

Manual Integration:

After

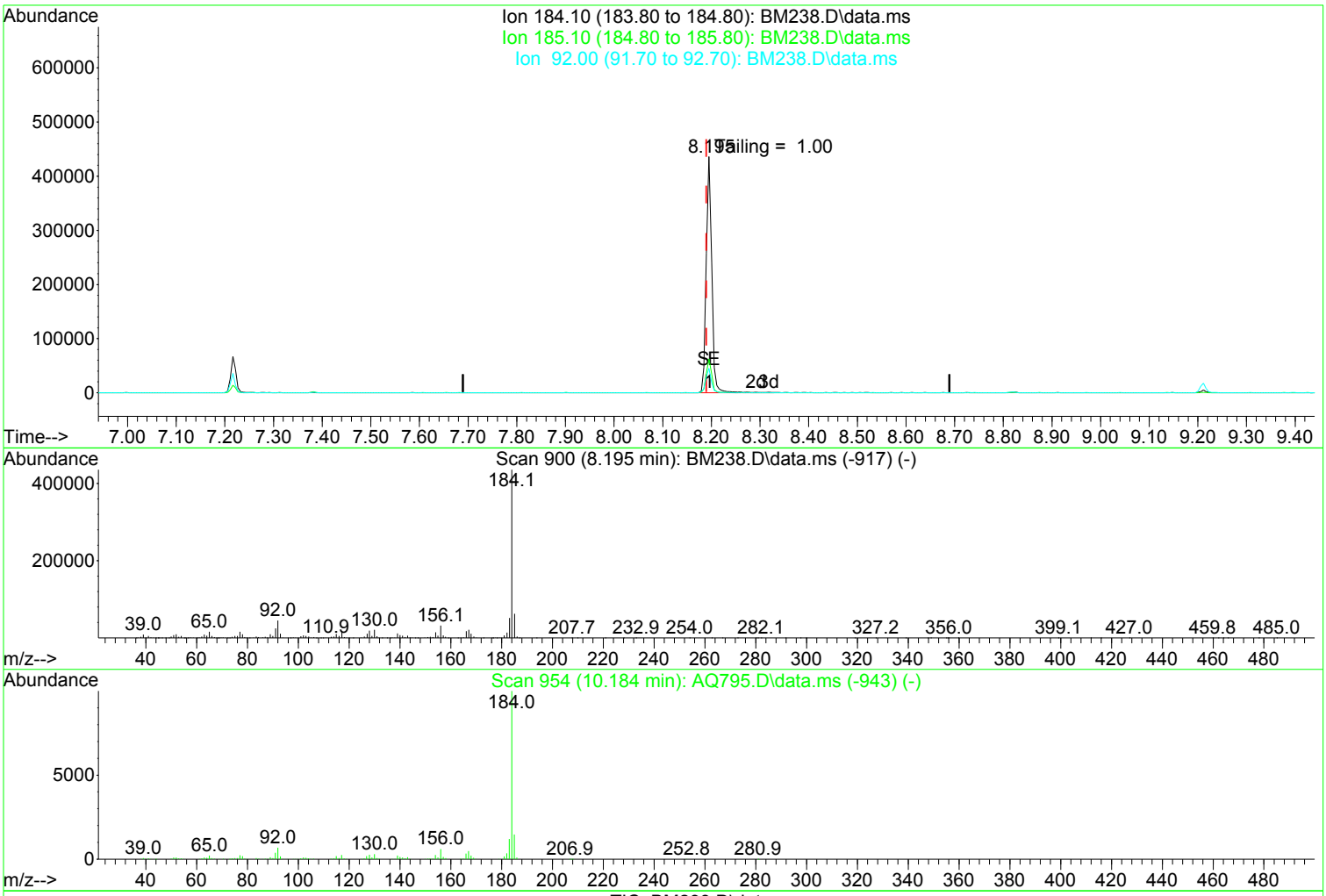
Other - Tailing

10/30/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM238.D
Acq On : 30 Oct 2017 9:43 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 30 10:17:04 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration



TIC: BM238.D\data.ms

(8) Benzidine (T)

8.195min (+ 0.005) 47.17 ppm

response 344507

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	14.40
92.00	8.00	10.21
0.00	0.00	0.00

Manual Integration:

After

Other - Tailing

10/30/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM238.D
Acq On : 30 Oct 2017 9:43 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 30 10:17:04 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration

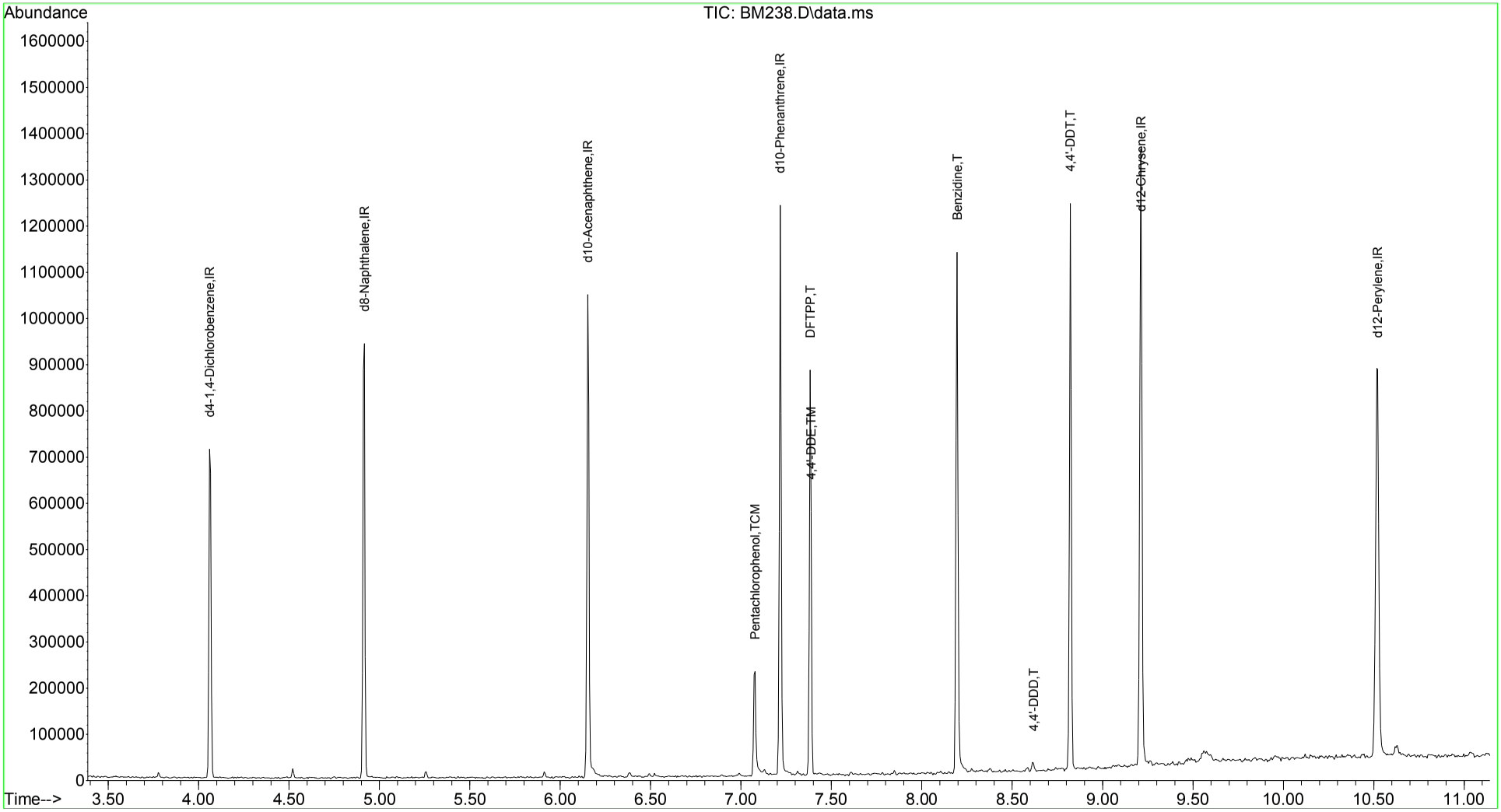
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.061	152	93514	40.00	ppm	0.00
2) d8-Naphthalene	4.916	136	350994	40.00	ppm	0.00
3) d10-Acenaphthene	6.152	164	182335	40.00	ppm	0.00
4) d10-Phenanthrene	7.216	188	346887	40.00	ppm	0.00
7) d12-Chrysene	9.211	240	371965	40.00	ppm	0.01
12) d12-Perylene	10.522	264	366466	40.00	ppm	0.03
Target Compounds						Qvalue
5) Pentachlorophenol	7.077	266	25918	29.088	ppm	89
6) DFTPP	7.382	198	56589	48.557	ppm	80
8) Benzidine	8.195	184	344507	47.169	ppm	97
9) 4,4'-DDE	7.388	246	1571	0.438	ppm	53
10) 4,4'-DDD	8.618	235	1808	0.504	ppm	75
11) 4,4'-DDT	8.821	235	160473	44.699	ppm	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM238.D
Acq On : 30 Oct 2017 9:43 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 30 10:17:04 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration



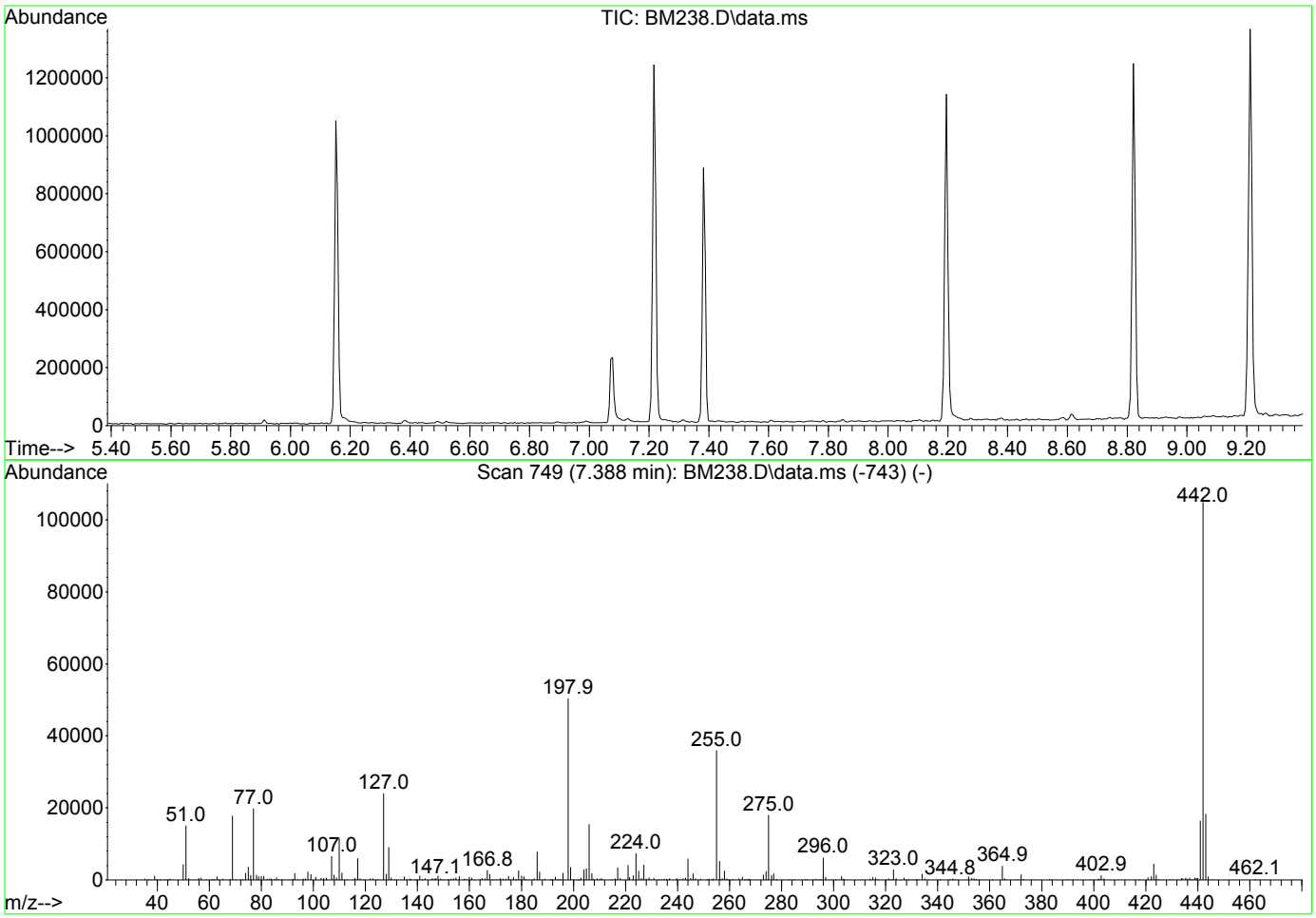
1st 10/31/17
2nd 10/31/17

1st 10/31/17
2nd 10/31/17

Data Path : I:\ACQUDATA\5973D\Data\103017\
Data File : BM238.D
Acq On : 30 Oct 2017 9:43 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Title : TUNE CHECK
Last Update : Thu Oct 26 13:50:01 2017



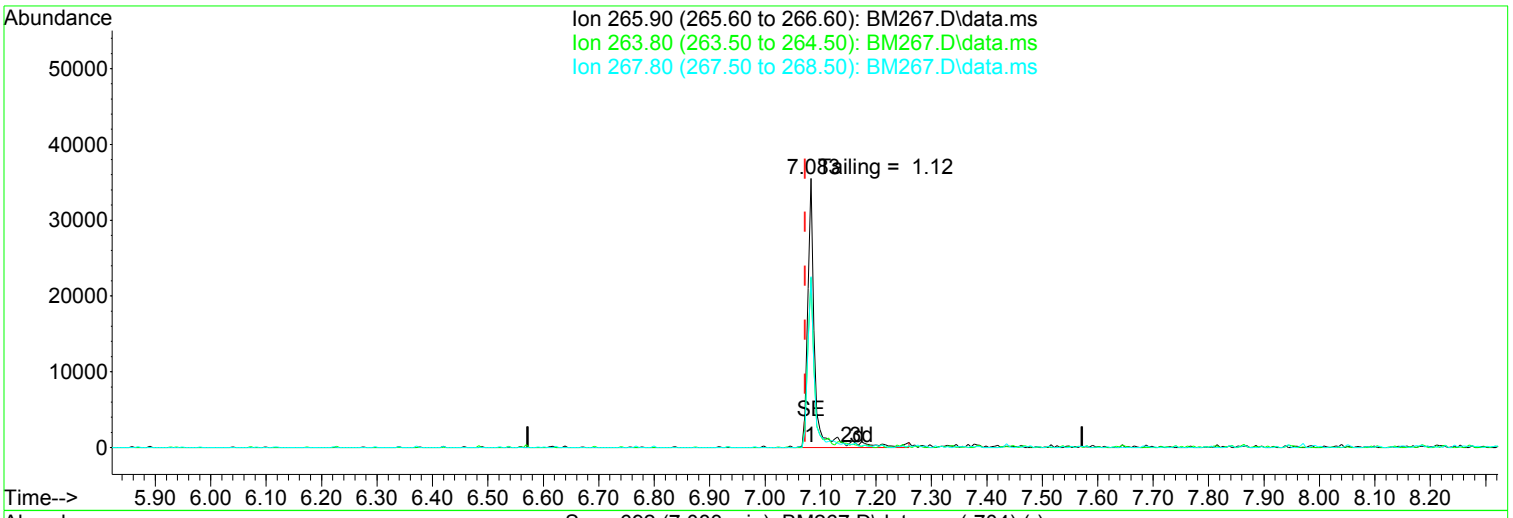
Spectrum Information: Scan 749

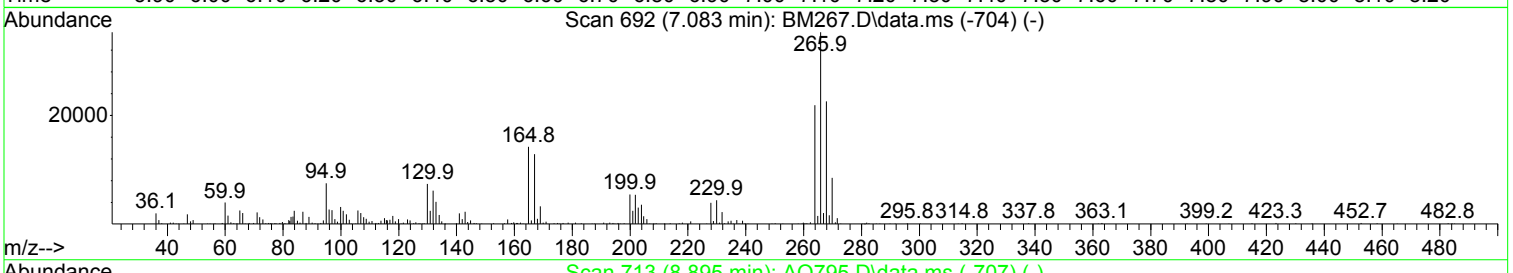
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	29.9	15089	PASS
68	69	0.00	2	1.4	246	PASS
70	69	0.00	2	0.5	82	PASS
127	198	10	80	47.6	23976	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	50416	PASS
199	198	5	9	7.1	3574	PASS
275	198	10	60	35.8	18064	PASS
365	198	1	500	7.8	3912	PASS
441	442	0.01	24	15.7	16472	PASS
442	442	100	100	100.0	104880	PASS
443	442	15	24	17.5	18336	PASS

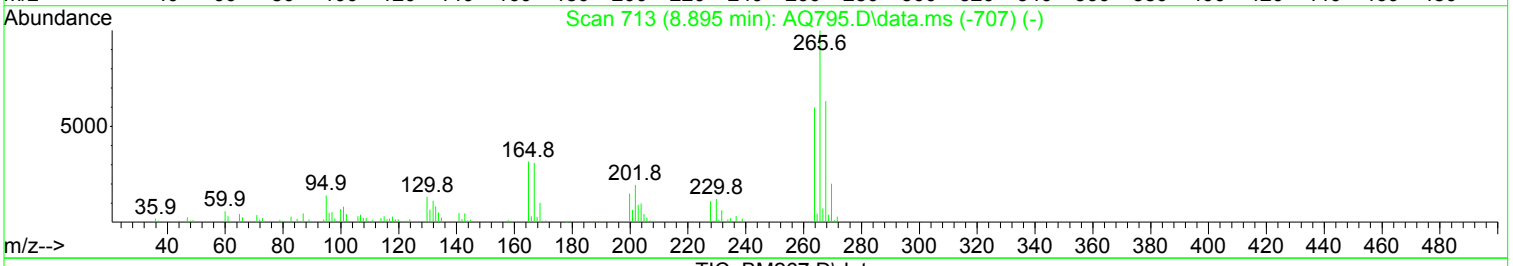
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM267.D
Acq On : 31 Oct 2017 6:36 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 06:46:31 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration







TIC: BM267.D\data.ms

(5) Pentachlorophenol (TCM)

7.083min (+ 0.011) 35.40 ppm

response 29491

Ion	Exp%	Act%
265.90	100.00	100.00
263.80	57.70	63.17
267.80	58.60	63.58
0.00	0.00	0.00

Manual Integration:

After

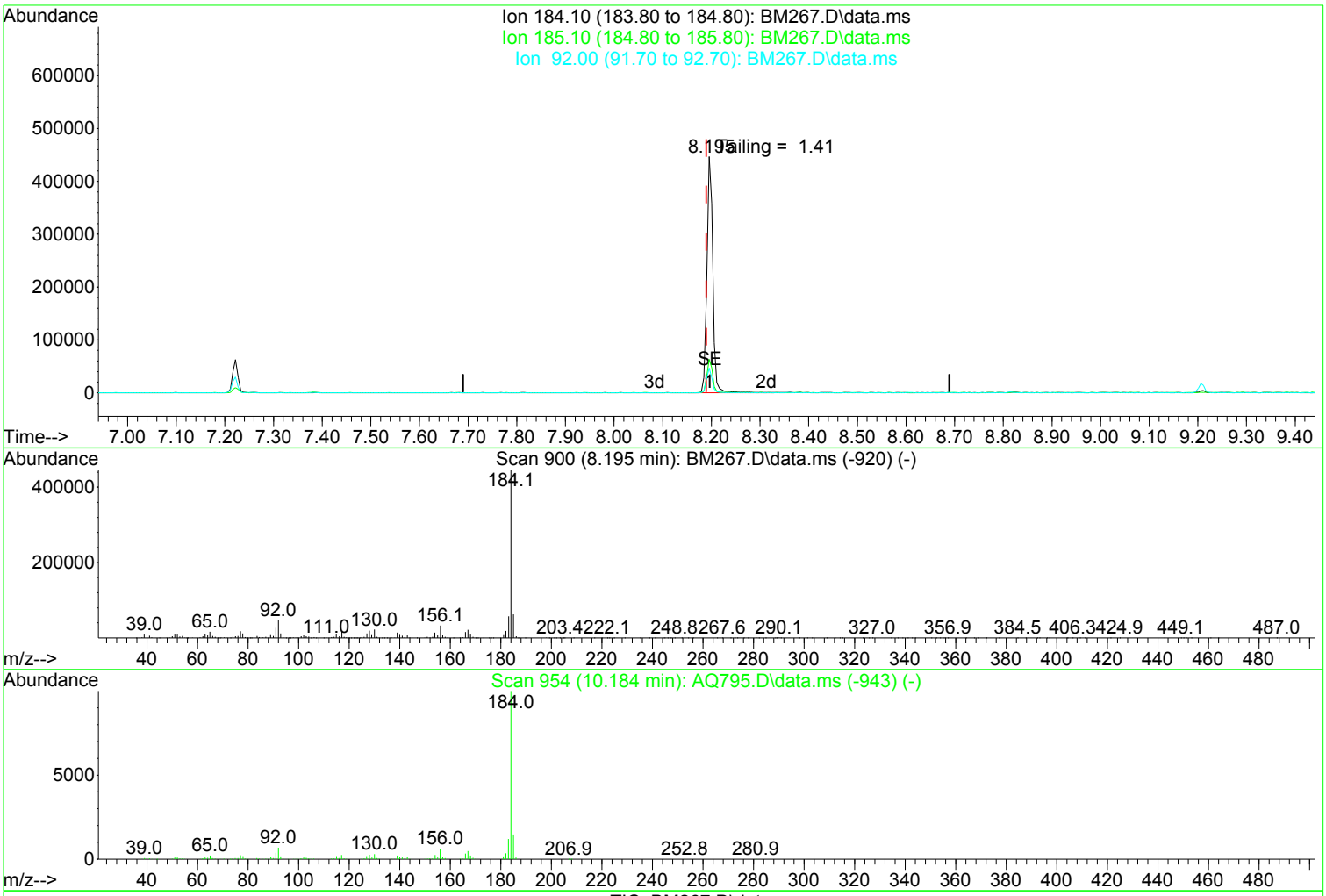
Other - Tailing

11/01/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM267.D
Acq On : 31 Oct 2017 6:36 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 06:46:31 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration



TIC: BM267.D\data.ms

(8) Benzidine (T)

8.195min (+ 0.005) 53.30 ppm

response 373588

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	14.14
92.00	8.00	10.52
0.00	0.00	0.00

Manual Integration:

After

Other - Tailing

11/01/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM267.D
Acq On : 31 Oct 2017 6:36 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 06:46:31 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration

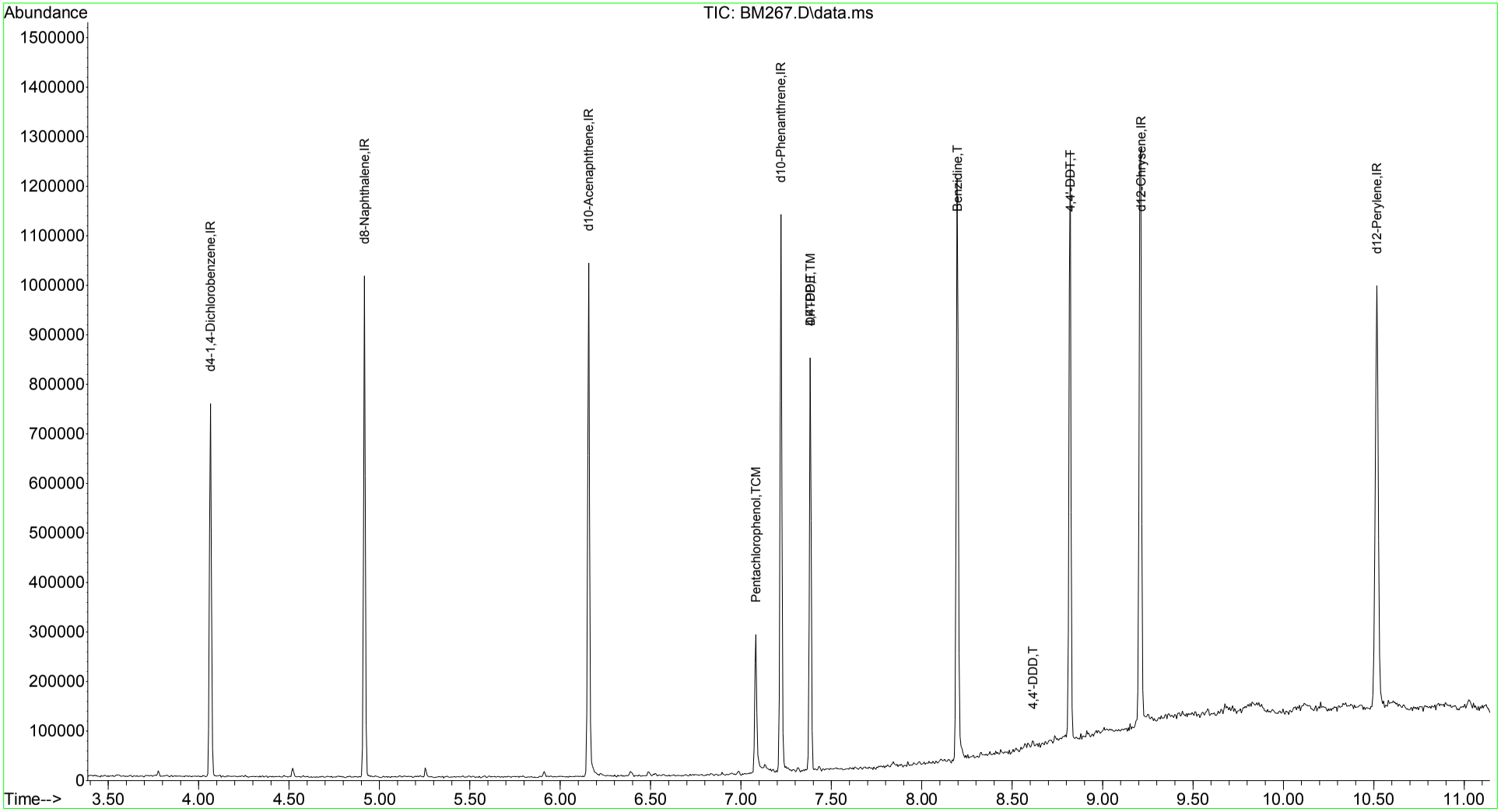
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.066	152	90758	40.00	ppm	0.00
2) d8-Naphthalene	4.917	136	335483	40.00	ppm	0.00
3) d10-Acenaphthene	6.157	164	171832	40.00	ppm	0.00
4) d10-Phenanthrene	7.222	188	324358	40.00	ppm	0.00
7) d12-Chrysene	9.212	240	356947	40.00	ppm	0.01
12) d12-Perylene	10.517	264	360166	40.00	ppm	0.02
Target Compounds						Qvalue
5) Pentachlorophenol	7.083	266	29491	35.397	ppm	93
6) DFTPP	7.382	198	53682	49.262	ppm	85
8) Benzidine	8.195	184	373588	53.303	ppm	96
9) 4,4'-DDE	7.382	246	1105	0.321	ppm	77
10) 4,4'-DDD	8.613	235	2315	0.672	ppm	85
11) 4,4'-DDT	8.821	235	168455	48.897	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM267.D
Acq On : 31 Oct 2017 6:36 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 31 06:46:31 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration



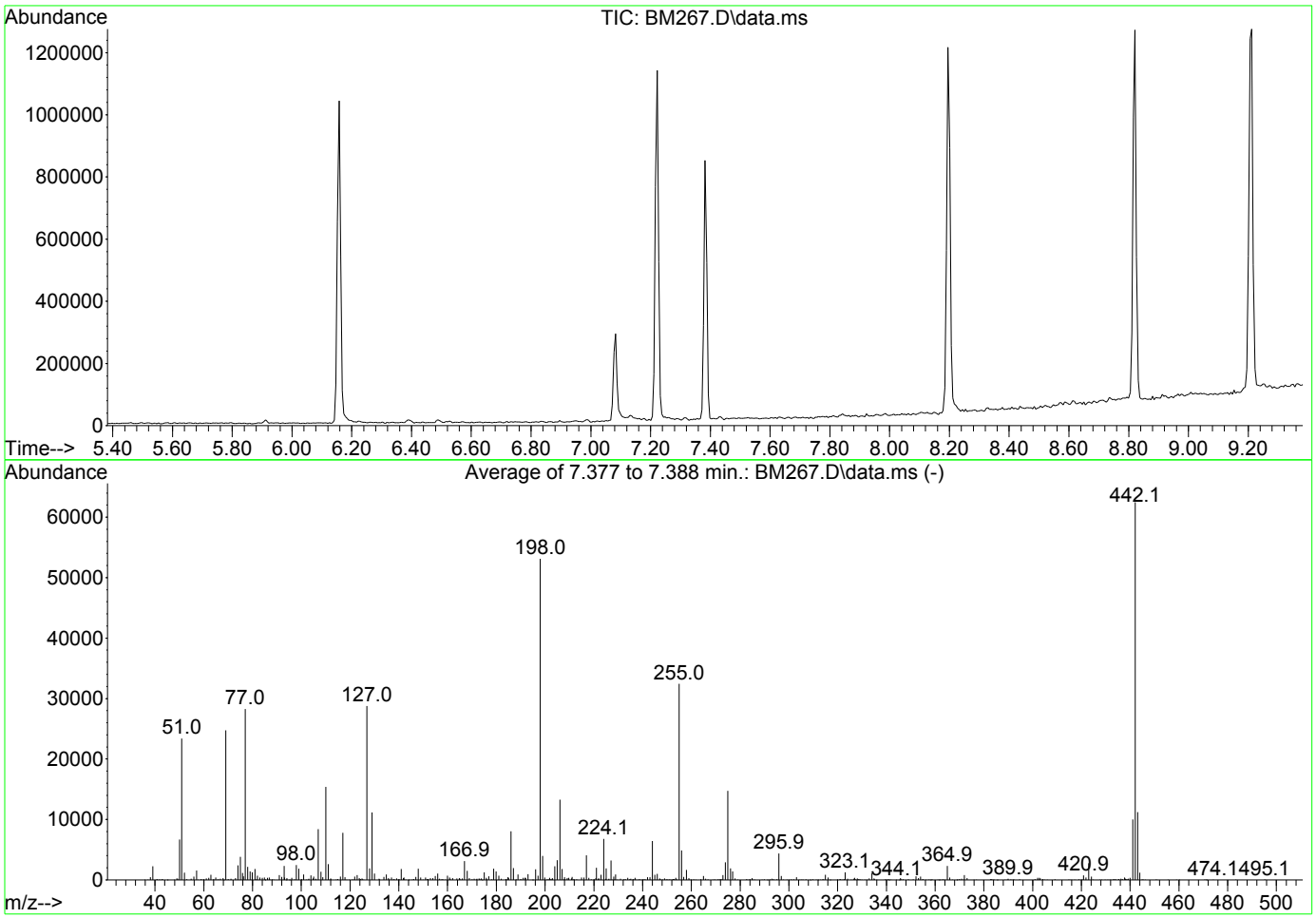
1st 11/01/17
2nd 11/01/17

1st 11/01/17
2nd 11/01/17

Data Path : I:\ACQUDATA\5973D\Data\103117\
Data File : BM267.D
Acq On : 31 Oct 2017 6:36 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Title : TUNE CHECK
Last Update : Thu Oct 26 13:50:01 2017



AutoFind: Scans 747, 748, 749; Background Corrected with Scan 743

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.0	23365	PASS
68	69	0.00	2	1.2	298	PASS
70	69	0.00	2	0.7	164	PASS
127	198	10	80	54.2	28787	PASS
197	198	0.00	2	1.3	687	PASS
198	198	100	100	100.0	53133	PASS
199	198	5	9	7.5	3987	PASS
275	198	10	60	27.8	14752	PASS
365	198	1	500	4.3	2304	PASS
441	442	0.01	24	16.0	10002	PASS
442	442	100	100	100.0	62462	PASS
443	442	15	24	18.0	11213	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	98821	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	382329	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	188265	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	332619	40.00	ppm	0.00
117) d12-Chrysene	12.380	240	329149	40.00	ppm	0.00
135) d12-Perylene	15.306	264	358217	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	248448	75.09	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 37.55%			
12) SURR2,PHENOL-D6	4.437	99	304404	77.88	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 38.94%			
34) SURR4,NITROBENZENE-D5	5.266	82	266501	77.43	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 77.43%			
63) SURR5,2-FLUOROBIPHENYL	6.978	172	531210	74.62	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 74.62%			
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	88999	70.70	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 35.35%			
124) SURR6,TERPHENYL-D14	10.802	244	556262	74.34	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 74.34%			
Target Compounds						Qvalue
2) Pyridine	2.768	79	242464	75.582	ppm	96
3) N-Nitrosodimethylamine	2.731	74	133057	77.173	ppm	97
4) 2-Picoline	3.293	93	263024	77.012	ppm	99
5) N-Nitrosomethylamine	3.362	42	131888	71.703	ppm	98
6) Methyl Methansulfonate	3.587	80	137052	78.980	ppm	98
8) N-Nitrosodiethylamine	3.892	102	113736	75.453	ppm	88
9) Ethyl Mathanesulfonate	4.116	79	182186	76.167	ppm	99
10) Benzaldehyde	4.405	106	159424	82.446	ppm	95
11) Aniline	4.491	93	402670	77.822	ppm	99
13) Phenol	4.448	94	297002	72.791	ppm	98
14) bis(2-Clethyl)Ether	4.533	93	215735	66.541	ppm	99
15) Pentachloroethane	4.539	117	92555	75.813	ppm	98
16) 2-Chlorophenol	4.592	128	251537	74.406	ppm	98
17) 1,3-Diclbenzene	4.726	146	266235	72.349	ppm	98
18) 1,4-Dichlorobenzene	4.790	146	273019	74.299	ppm	99
19) 1,2-Diclbenzene	4.924	146	259252	73.156	ppm	99
20) Benzyl Alcohol	4.881	79	202059	72.179	ppm	98
21) 1-Methyl-2-pyrrolidinone	4.945	99	163470	79.438	ppm	96
22) 2,2'-oxybis(1-Chloropr...	4.999	45	219407	46.889	ppm	97
23) 2-Methylphenol	4.983	108	221881	78.166	ppm	99
24) 3+4-Methylphenol	5.116	108	234191	73.115	ppm	97
25) Acetophenone	5.122	105	336729	75.294	ppm	80
26) N-Nitroso-Di-n-propyla...	5.122	70	187060	75.882	ppm	99
27) N-Nitrosopyrrolidine	5.111	100	127373	77.816	ppm	84
28) N-Nitrosomorpholine	5.143	56	154776	74.972	ppm	100
29) o-Toluidine	5.159	106	374249	74.969	ppm	96
30) Hexachloroethane	5.223	117	112079	73.267	ppm	99
31) o,o,o-Triethylphosphor...	5.667	198	108810	77.455	ppm	92
32) Alpha-terpinol	5.962	121	95155	74.309	ppm	99
35) Nitrobenzene	5.282	77	267085	69.725	ppm	96
36) N-Nitrosopiperidine	5.421	42	175534	76.572	ppm	99
37) Isophorone	5.502	82	466052	67.279	ppm	98
38) 2-Nitrophenol	5.571	139	134172	78.091	ppm	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.683	105	149129	82.910	ppm		93
40) 2,4-Dimethylphenol	5.608	107	243075	74.794	ppm		97
41) bis(-2-Chloroethoxy)Me...	5.694	93	271226	66.878	ppm		100
42) 2,4-Dichlorophenol	5.801	162	193677	71.460	ppm		100
43) a,a-Dimethylphenethyla...	6.266	58	265130m	35.858	ppm		
44) 1,2,4-Trichlorobenzene	5.876	180	219013	70.945	ppm		97
45) Naphthalene	5.956	128	708866	72.933	ppm		99
46) 4-Chloroaniline	6.004	127	322513	79.231	ppm		98
47) 2,6-Dichlorophenol	6.015	162	213785	79.245	ppm		96
48) Hexachlorobutadiene	6.068	225	125940	72.166	ppm		100
49) Hexachloropropene	6.036	213	161122	77.975	ppm		97
50) 4-Chloro-3-methylphenol	6.470	107	203404	76.139	ppm		97
51) N-N-di-n-butylamine	6.325	84	166569	68.990	ppm		98
52) Caprolactam	6.363	113	69706	75.593	ppm		93
53) p-Phenylenediamine	6.357	80	105790	67.604	ppm		86
54) Safrole	6.534	162	188539	76.002	ppm		98
55) 2-Methylnaphthalene	6.619	142	464568	71.541	ppm		95
56) 1-Methylnaphthalene	6.716	142	432933	73.732	ppm		98
58) Hexachlorocyclopentadiene	6.769	237	140052	74.125	ppm		98
59) 1,2,4,5-Tetrachloroben...	6.780	216	229152	74.922	ppm		98
60) 1,2,3,4-Tetrachloroben...	7.058	216	209427	75.569	ppm		97
61) 2,4,6-Trichlorophenol	6.892	196	139791	70.893	ppm		95
62) 2,4,5-Trichlorophenol	6.935	196	135239	69.741	ppm		97
64) Isosafrole	7.037	104	91023	73.985	ppm		99
65) 1,1'-Biphenyl	7.074	154	583772	74.581	ppm		100
66) 2-Chloronaphthalene	7.095	162	439535	71.907	ppm		97
67) 2-Nitroaniline	7.197	65	128072	76.604	ppm		93
68) 1,4-Naphthoquinone	7.272	158	43476	67.655	ppm		96
69) m-Dinitrobenzene	7.411	168	73866	77.603	ppm		93
70) Acenaphthylene	7.502	152	696109	72.755	ppm		99
71) Dimethyl phthalate	7.379	163	487156	73.391	ppm		98
72) 2,6-Dinitrotoluene	7.438	165	109922	66.406	ppm		96
73) Acenaphthene	7.673	153	462238	72.599	ppm		100
74) 3-Nitroaniline	7.604	138	128756	79.300	ppm		98
75) 2,4-Dinitrophenol	7.705	184	48910	63.246	ppm		90
76) Dibenzofuran	7.844	168	605466	71.610	ppm		99
77) 2,4-Dinitrotoluene	7.834	165	145437	68.740	ppm		98
78) 4-Nitrophenol	7.769	65	102427	73.858	ppm		95
79) Pentachlorobenzene	7.801	250	199118	73.550	ppm		95
80) 1-Napthylamine	7.924	143	344364	69.535	ppm		98
81) 2-Napthylamine	8.005	143	382227	72.520	ppm		99
82) 2,3,4,6-Tetrachlorophenol	7.962	232	108170	69.738	ppm		92
83) Fluorene	8.181	166	472819	68.425	ppm		99
84) 4-Chlorophenyl-phenyle...	8.181	204	211582	58.525	ppm		95
85) Diethylphthalate	8.069	149	505361	72.231	ppm		99
86) 4-Nitroaniline	8.208	138	140941	77.185	ppm		97
87) 5-Nitro-o-toluidine	8.197	152	138533	72.560	ppm		93
89) Sulfotepp	8.459	322	78288	68.544	ppm		98
90) Octachlorocyclopentene	8.433	307	87451	74.763	ppm		97
92) Thionazin	8.154	107	75905	74.128	ppm		92
93) 4,6-Dinitro-2-methylph...	8.235	198	80430	73.119	ppm		96
94) Diphenylamine	8.299	169	727800	146.520	ppm		100
95) 1,2 Diphenylhydrazine	8.336	77	509162	73.130	ppm		98
96) N-Nitrosodiphenylamine	8.299	169	727800	146.516	ppm		100
97) 1,3,5-Trinirobenzene	8.572	213	42390	78.898	ppm	#	6
98) Diallate	8.582	86	158826	69.076	ppm		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

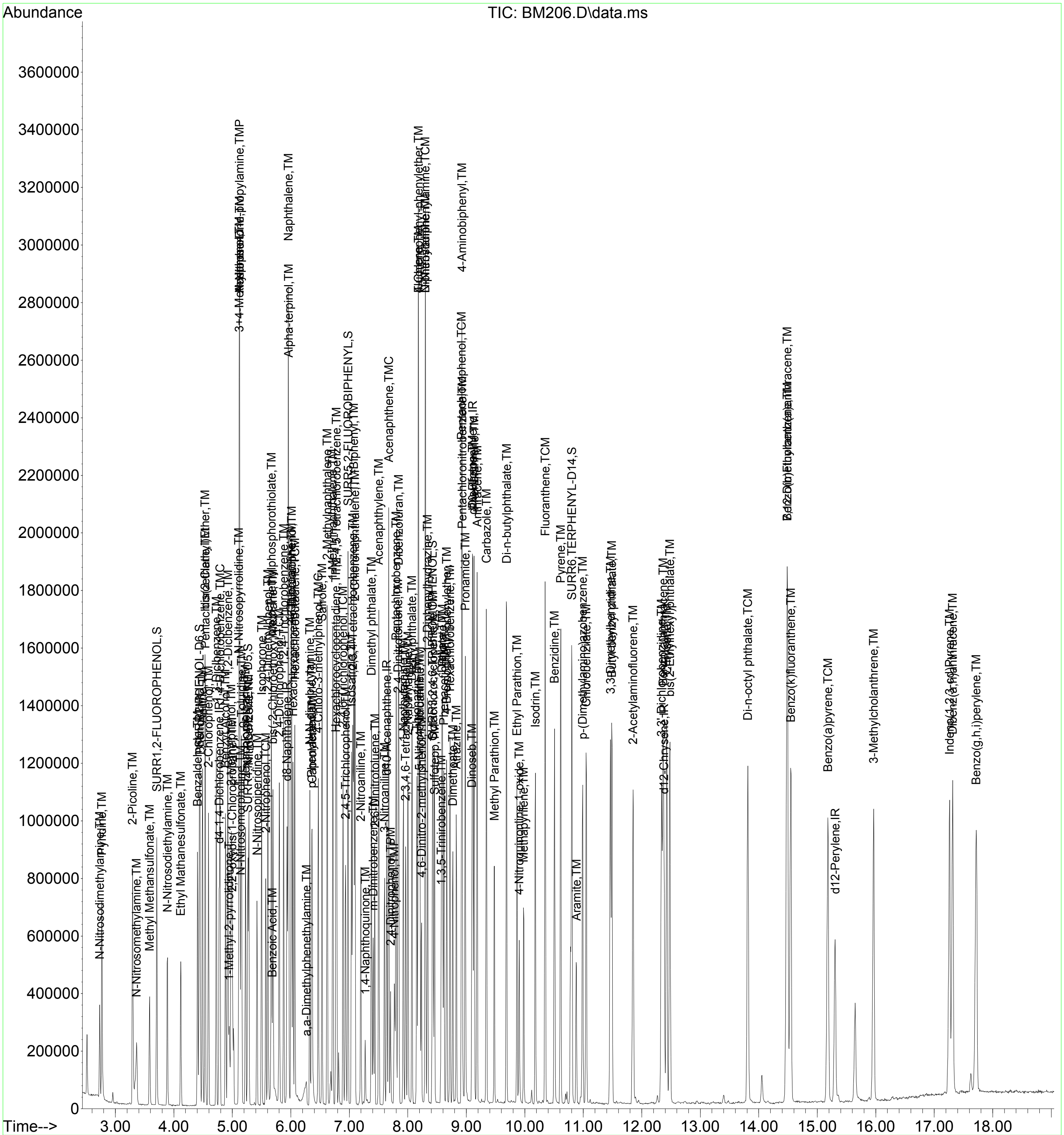
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.593	121	84502	73.436	ppm	99
100) Phenacetin	8.614	108	247673	75.005	ppm	97
101) 4-Bromophenyl-phenylether	8.663	248	123725	58.539	ppm	91
102) Hexachlorobenzene	8.721	284	158424	69.161	ppm	98
103) Dimethoate	8.770	87	156950	77.634	ppm	99
104) Atrazine	8.828	215	55320	83.255	ppm	94
105) Pentachlorophenol	8.919	266	108554	84.362	ppm	95
106) 4-Aminobiphenyl	8.925	169	441687	79.471	ppm	99
107) Pentachloronitrobenzene	8.930	237	67898	81.357	ppm	97
108) Pronamide	8.983	173	233257	82.108	ppm	99
109) Dinoseb	9.096	211	108773	72.602	ppm	98
110) Disulfoton	9.106	88	183630	70.318	ppm	97
111) Phenanthrene	9.133	178	652568	71.827	ppm	99
112) Anthracene	9.187	178	671874	74.569	ppm	99
113) Carbazole	9.342	167	654775	73.790	ppm	98
114) Di-n-butylphthalate	9.690	149	910511	79.022	ppm	98
115) 4-Nitroquinonline-1-oxide	9.903	190	57656	82.587	ppm	93
116) Fluoranthene	10.347	202	747306	75.978	ppm	98
118) Methyl Parathion	9.481	109	133353	84.507	ppm	96
119) Ethyl Parathion	9.866	97	98663	79.418	ppm	99
120) Methapyrilene	9.978	58	176045	66.001	ppm	93
121) Isodrin	10.182	193	73894	75.047	ppm	95
122) Benzidine	10.508	184	538278	88.261	ppm	98
123) Pyrene	10.615	202	751263	74.275	ppm	98
125) Aramite	10.882	185	94269m	75.086	ppm	
126) p-(Dimethylamino)azobe...	10.989	120	214325	76.278	ppm	92
127) Chlorobenzilate	11.048	139	262321	78.814	ppm	92
128) Butyl benzyl phthalate	11.487	149	406833	81.013	ppm	99
129) 3,3-Dimethylbenzidine	11.465	212	548511	94.578	ppm	99
130) 2-Acetylaminofluorene	11.850	181	340781	82.967	ppm	99
131) 3,3'-Dichlorobenzidine	12.337	252	314917	76.931	ppm	98
132) Benzo(a)anthracene	12.364	228	707572	72.675	ppm	100
133) Chrysene	12.428	228	644200	68.748	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.481	149	545127	74.717	ppm	98
136) Di-n-octyl phthalate	13.813	149	1019148	82.652	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.487	256	366368	77.903	ppm	96
138) Benzo(b)Fluoranthene	14.487	252	827947	76.208	ppm	99
139) Benzo(k)fluoranthene	14.546	252	786677	75.188	ppm	96
140) Benzo(a)pyrene	15.183	252	716447	75.230	ppm	98
141) 3-Methylcholanthrene	15.963	268	400120	73.513	ppm	98
142) Indeno(1,2,3-cd)Pyrene	17.263	276	689206	73.390	ppm	94
143) Dibenz(a,h)anthracene	17.317	278	704263	70.551	ppm	98
144) Benzo(g,h,i)perylene	17.718	276	727335	79.313	ppm	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

1st MP 10/27/17
2nd MW 10/27/17

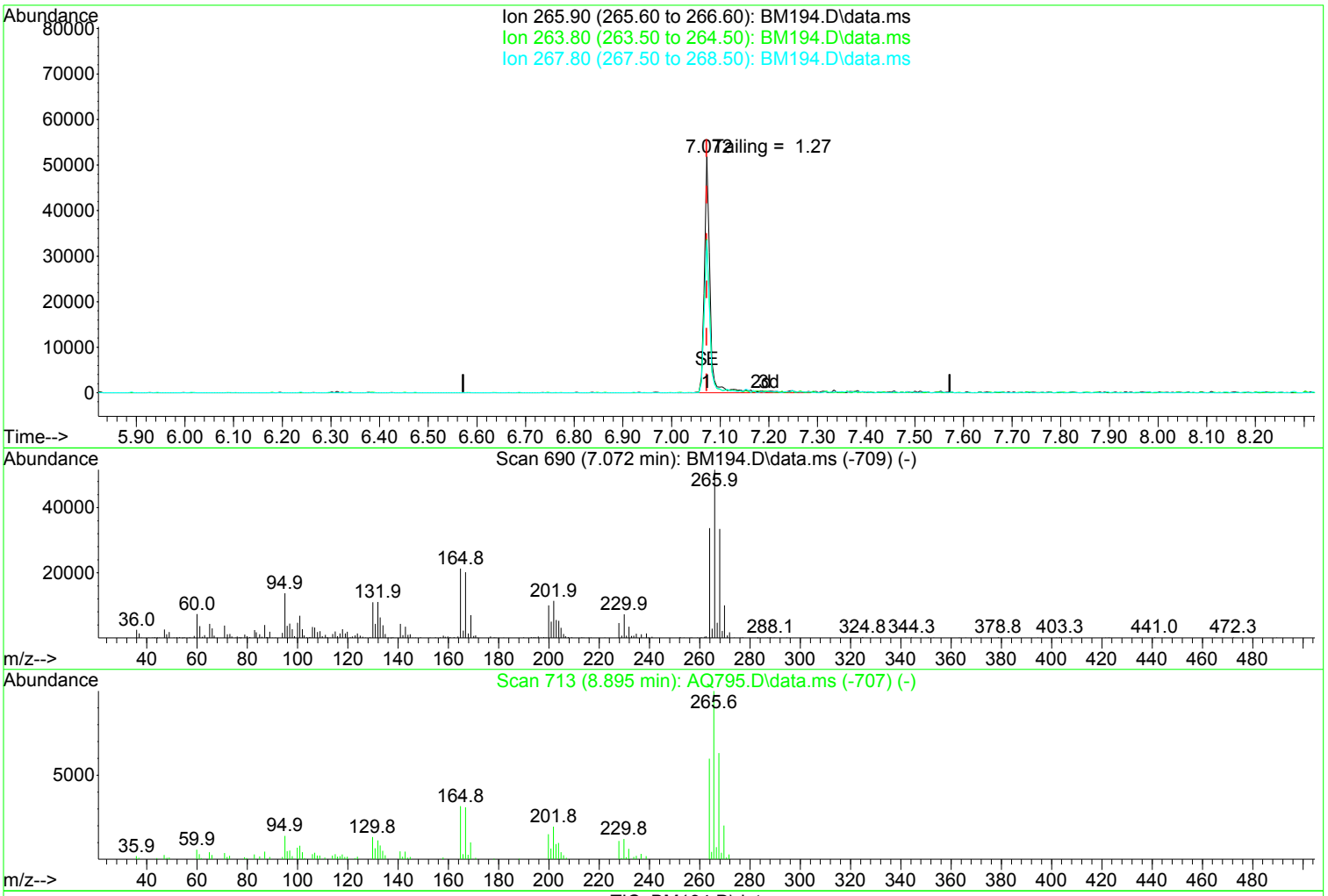
```
Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On    : 26 Oct 2017   2:38 pm
Operator  : J.Misiurewicz
Sample    : ICV
Misc      : Initial Calibration 8270D/625
ALS Vial  : 13   Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title  : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration
```



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM194.D
Acq On : 26 Oct 2017 8:20 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 13:50:22 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration



TIC: BM194.D\data.ms

(5) Pentachlorophenol (TCM)

7.072min (0.000) 50.00 ppm

response 41178

Ion	Exp%	Act%
265.90	100.00	100.00
263.80	57.70	65.02
267.80	58.60	64.63
0.00	0.00	0.00

Manual Integration:

After

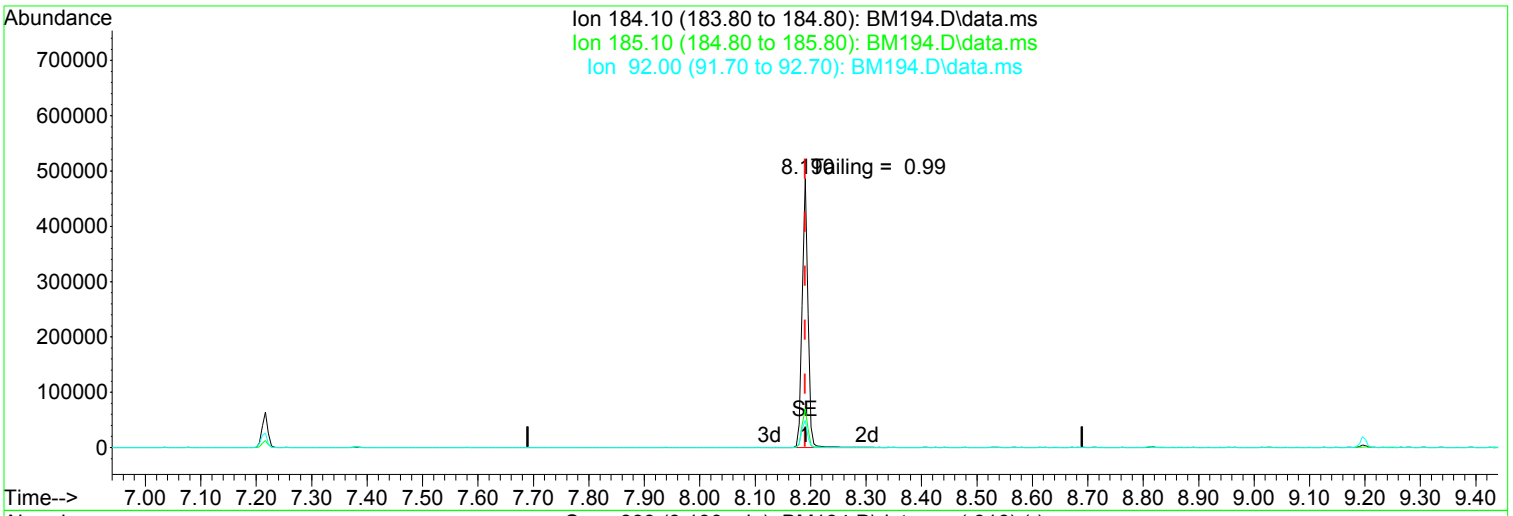
Other - Tailing

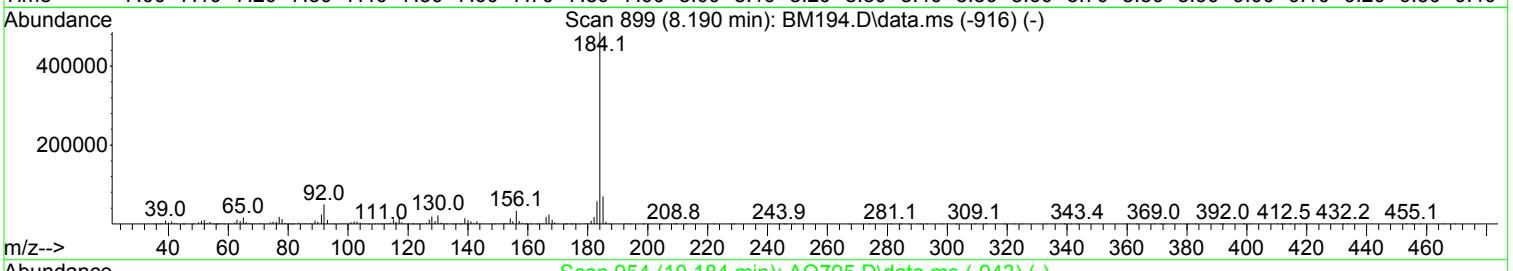
10/26/17

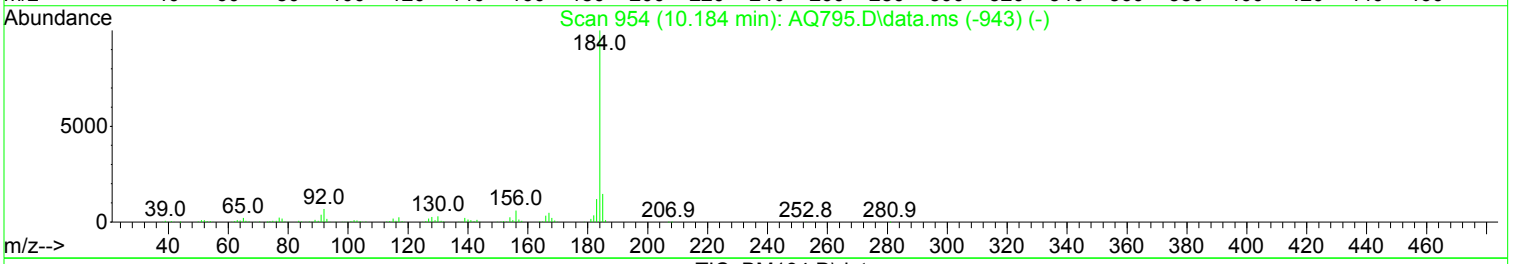
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM194.D
Acq On : 26 Oct 2017 8:20 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 13:50:22 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration







TIC: BM194.D\data.ms

(8) Benzidine (T)

8.190min (0.000) 50.00 ppm

response 349254

Ion	Exp%	Act%
184.10	100.00	100.00
185.10	14.90	14.43
92.00	8.00	10.10
0.00	0.00	0.00

Manual Integration:

After

Other - Tailing

10/26/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM194.D
Acq On : 26 Oct 2017 8:20 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 13:50:22 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration

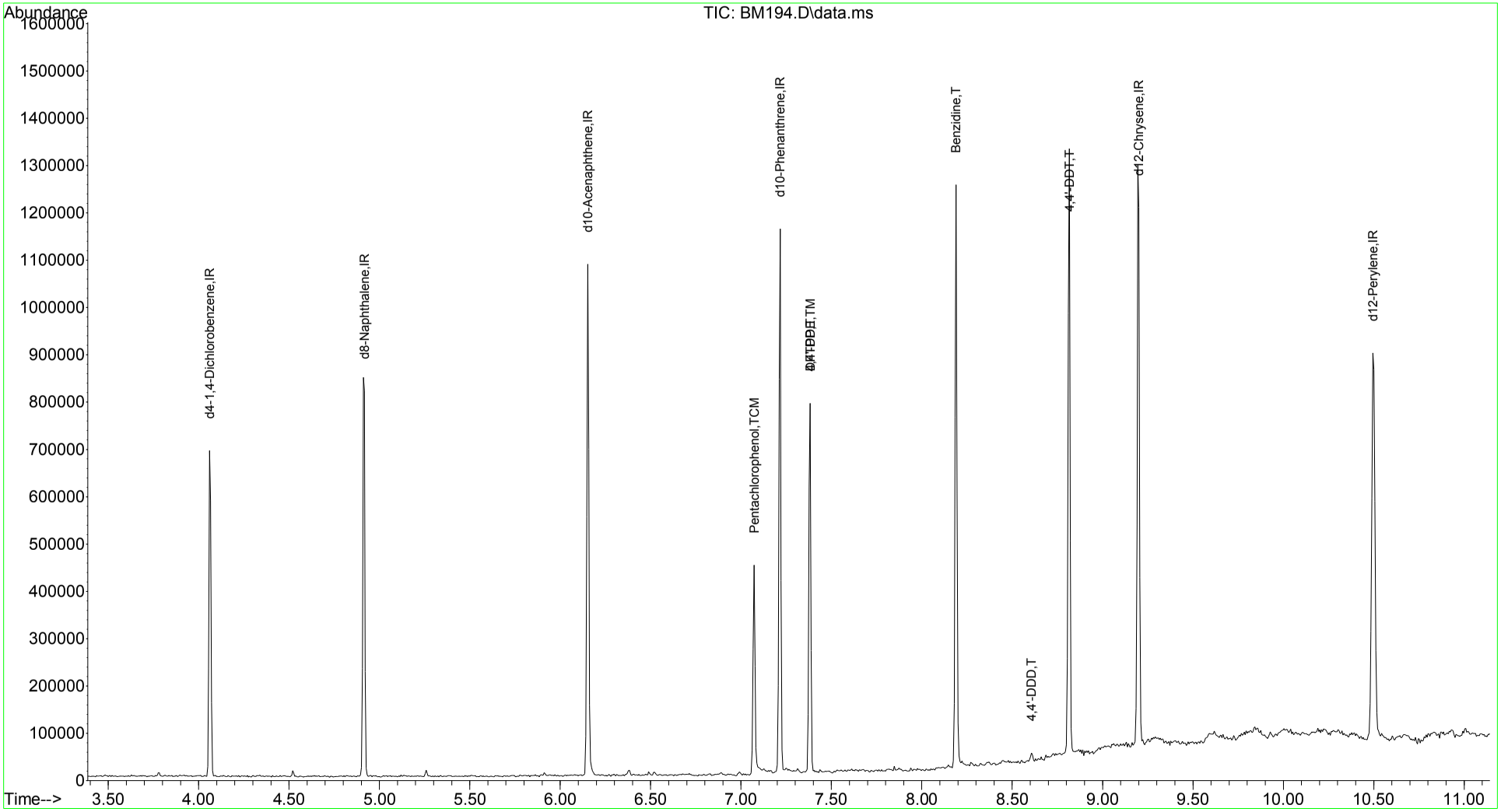
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.061	152	87100	40.00	ppm	0.00
2) d8-Naphthalene	4.917	136	317301	40.00	ppm	0.00
3) d10-Acenaphthene	6.152	164	177499	40.00	ppm	0.00
4) d10-Phenanthrene	7.217	188	320628	40.00	ppm	0.00
7) d12-Chrysene	9.201	240	355740	40.00	ppm	0.00
12) d12-Perylene	10.495	264	346793	40.00	ppm	0.00
Target Compounds						Qvalue
5) Pentachlorophenol	7.072	266	41178	50.000	ppm	91
6) DFTPP	7.382	198	53860	50.000	ppm	81
8) Benzidine	8.190	184	349254	50.000	ppm	97
9) 4,4'-DDE	7.382	246	1707	0.497	ppm	71
10) 4,4'-DDD	8.607	235	2242	0.653	ppm	87
11) 4,4'-DDT	8.816	235	171674	50.000	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM194.D
Acq On : 26 Oct 2017 8:20 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 26 13:50:22 2017
Quant Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Quant Title : TUNE CHECK
QLast Update : Thu Oct 26 13:50:01 2017
Response via : Initial Calibration



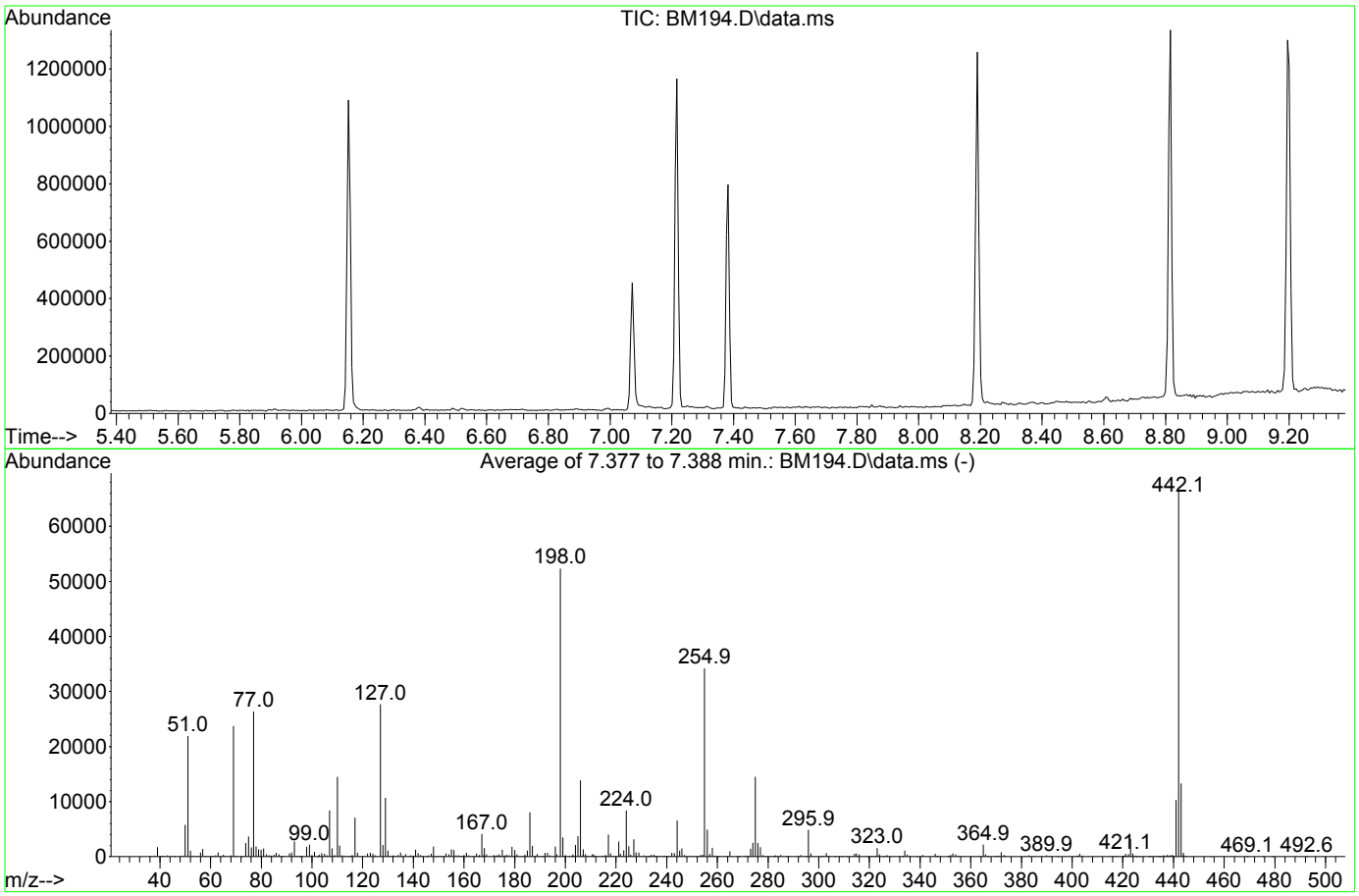
1st 10/27/17
2nd 10/27/17

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM194.D
Acq On : 26 Oct 2017 8:20 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNCHECK.M
Title : TUNE CHECK
Last Update : Tue Apr 01 09:41:30 2014



AutoFind: Scans 747, 748, 749; Background Corrected with Scan 742

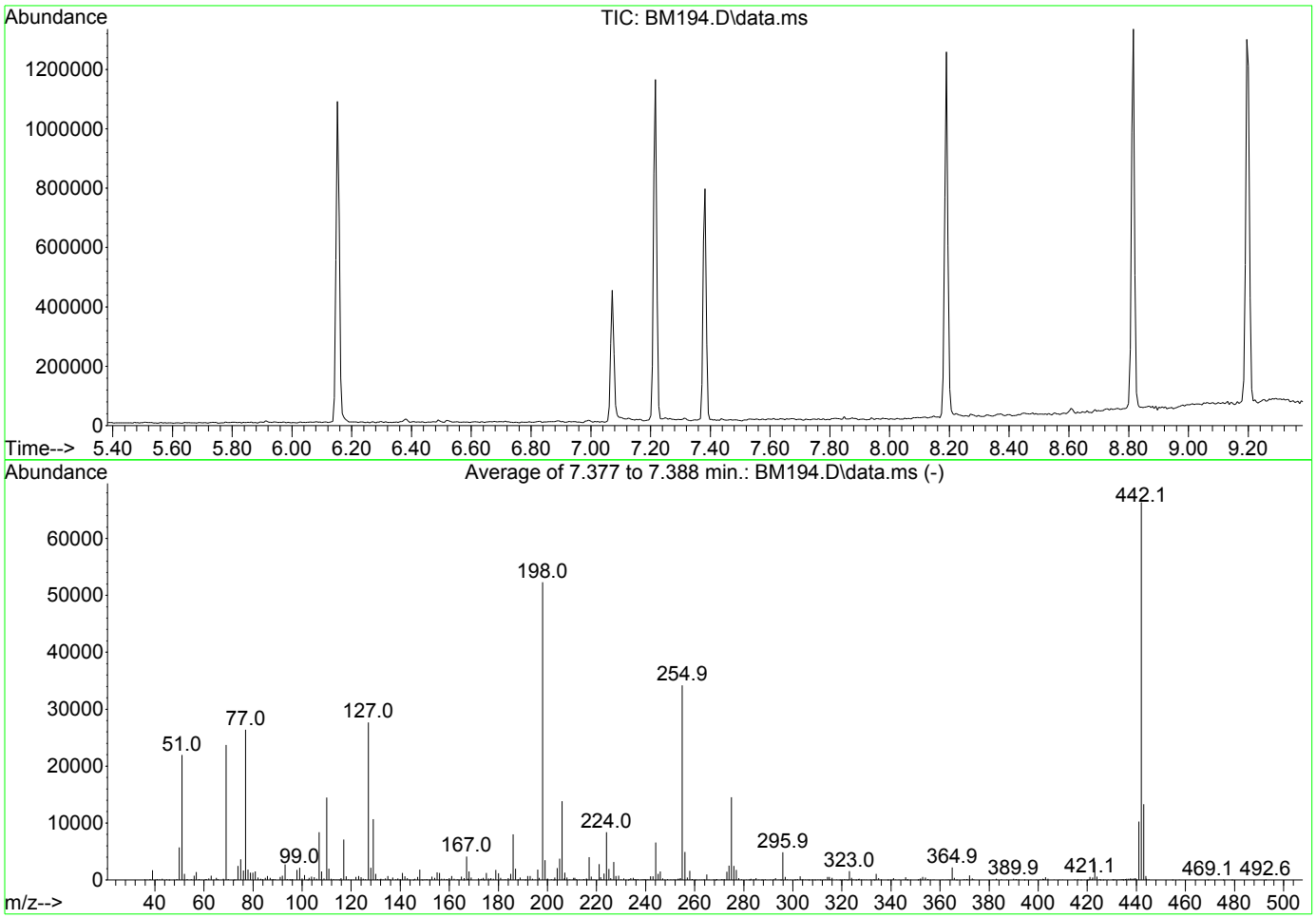
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.9	21938	PASS
68	69	0.00	2	0.9	219	PASS
69	198	0.00	100	45.4	23739	PASS
70	69	0.00	2	0.8	180	PASS
127	198	40	60	52.9	27676	PASS
197	198	0.00	1	0.8	402	PASS
198	198	100	100	100.0	52333	PASS
199	198	5	9	6.6	3458	PASS
275	198	10	30	27.7	14514	PASS
365	198	1	500	4.2	2185	PASS
441	443	0.01	100	77.2	10264	PASS
442	198	50	500	126.8	66352	PASS
443	442	17	23	20.0	13290	PASS

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM194.D
Acq On : 26 Oct 2017 8:20 am
Operator : J.Misiurewicz
Sample : TUNE
Misc : 50 ng DFTPP
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : I:\ACQUDATA\5973D\Methods\TUNED.M
Title : TUNE CHECK
Last Update : Thu Oct 26 13:50:01 2017



AutoFind: Scans 747, 748, 749; Background Corrected with Scan 742

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.9	21938	PASS
68	69	0.00	2	0.9	219	PASS
70	69	0.00	2	0.8	180	PASS
127	198	10	80	52.9	27676	PASS
197	198	0.00	2	0.8	402	PASS
198	198	100	100	100.0	52333	PASS
199	198	5	9	6.6	3458	PASS
275	198	10	60	27.7	14514	PASS
365	198	1	500	4.2	2185	PASS
441	442	0.01	24	15.5	10264	PASS
442	442	100	100	100.0	66352	PASS
443	442	15	24	20.0	13290	PASS

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM196.D
Acq On : 26 Oct 2017 9:26 am
Operator : J.Misiurewicz
Sample : BLK
Misc : Initial Calibration 8270D/625
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 27 13:12:50 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

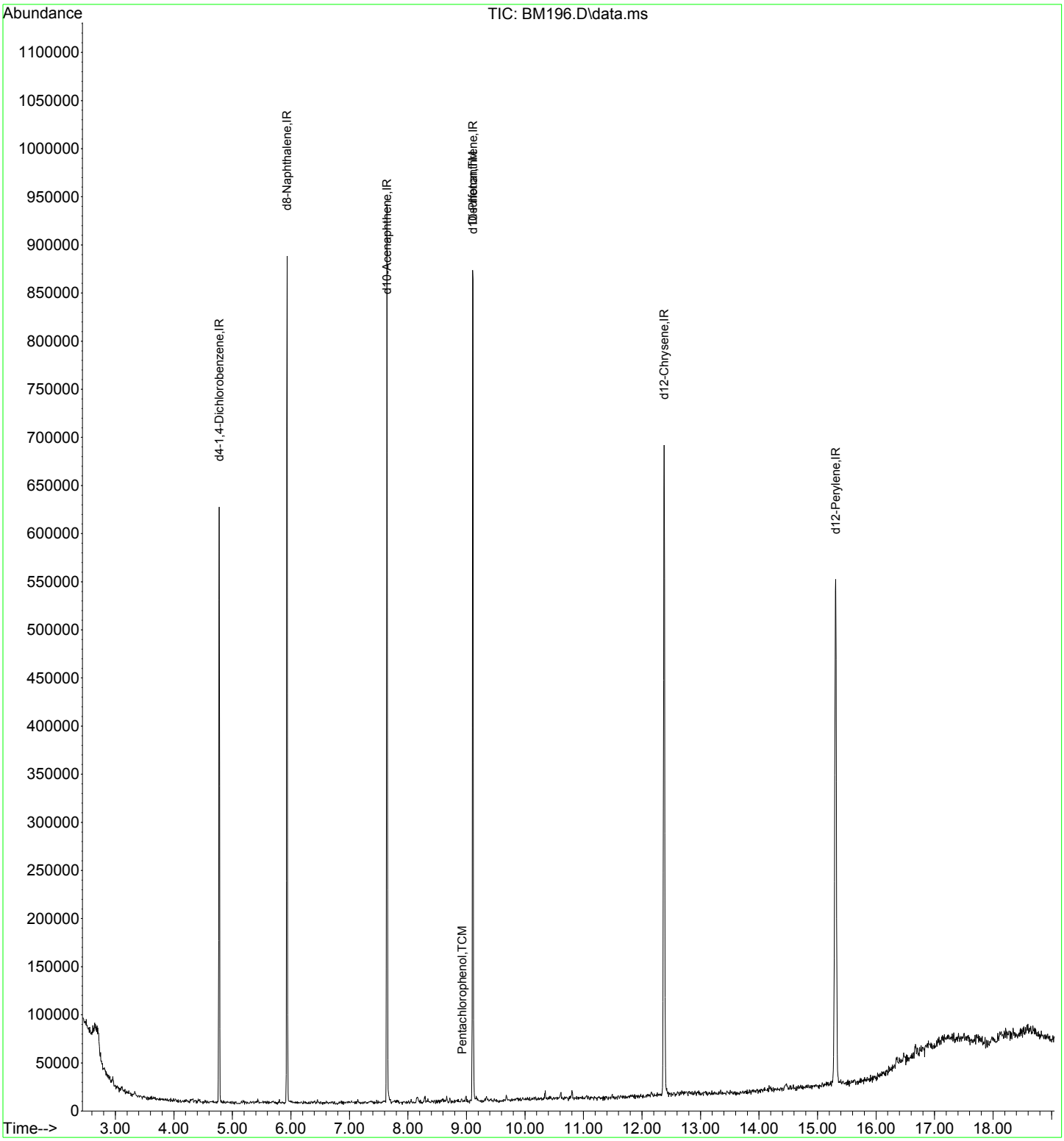
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	90132	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	350252	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	175564	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	323584	40.00	ppm	0.00
117) d12-Chrysene	12.380	240	325533	40.00	ppm	0.00
135) d12-Perylene	15.311	264	357391	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	0.000	112	0	0.00	ppm	
Spiked Amount 200.000	Range 10 - 105		Recovery =	0.00%#		
12) SURR2,PHENOL-D6	0.000	99	0	0.00	ppm	
Spiked Amount 200.000	Range 10 - 107		Recovery =	0.00%#		
34) SURR4,NITROBENZENE-D5	5.218	82	101	0.03	ppm	-0.05
Spiked Amount 100.000	Range 37 - 117		Recovery =	0.03%#		
63) SURR5,2-FLUOROBIPHENYL	6.962	172	186	0.03	ppm	-0.02
Spiked Amount 100.000	Range 39 - 119		Recovery =	0.03%#		
88) SURR3,2,4,6-TRIBROMOPH...	8.406	330	409	0.35	ppm	-0.02
Spiked Amount 200.000	Range 28 - 157		Recovery =	0.17%#		
124) SURR6,TERPHENYL-D14	10.802	244	2391	0.32	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery =	0.32%#		
Target Compounds						Qvalue
105) Pentachlorophenol	8.925	266	164	2.958	ppm	# 61
110) Disulfoton	9.107	88	4469	1.759	ppm	46

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM196.D
Acq On : 26 Oct 2017 9:26 am
Operator : J.Misiurewicz
Sample : BLK
Misc : Initial Calibration 8270D/625
ALS Vial : 3 Sample Multiplier: 1

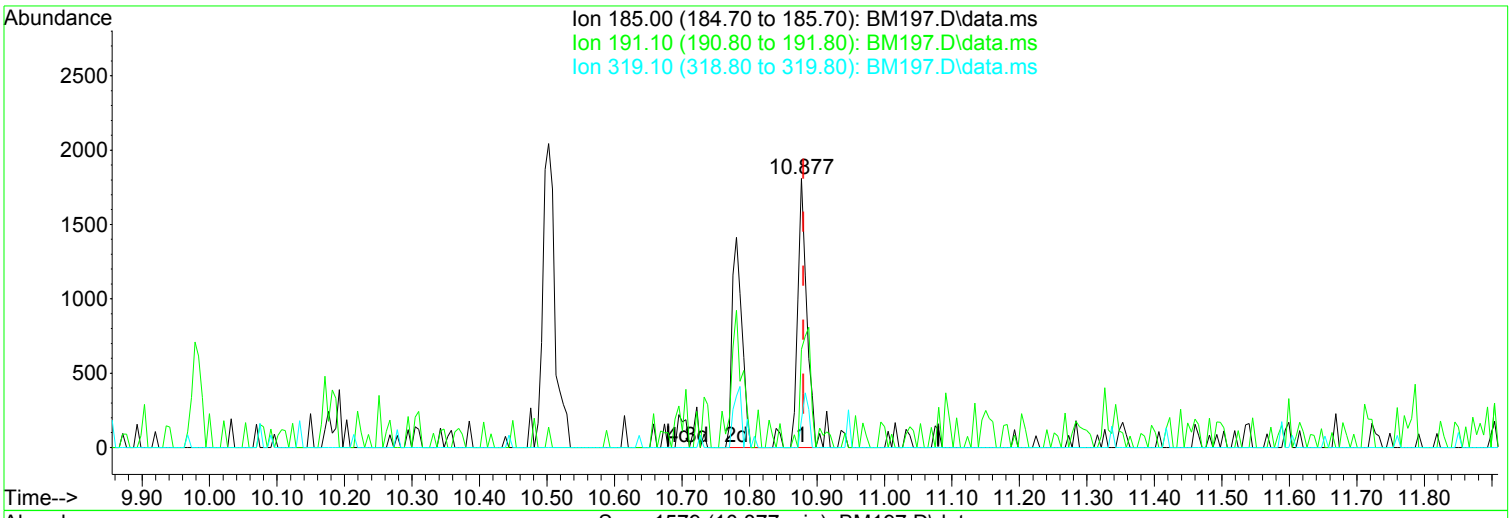
Quant Time: Oct 27 13:12:50 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

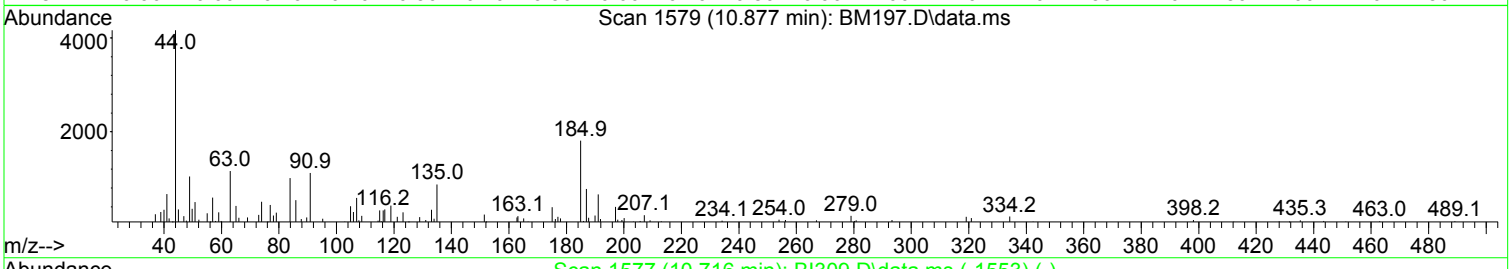


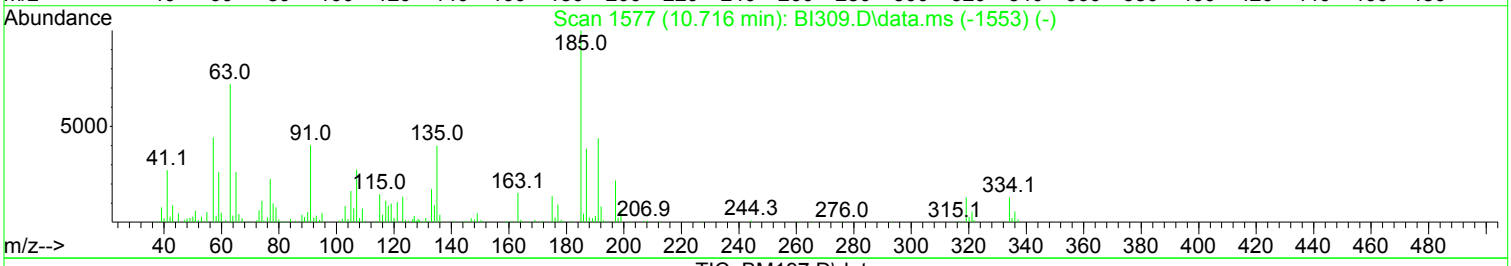
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM197.D
Acq On : 26 Oct 2017 10:22 am
Operator : J.Misiurewicz
Sample : 2.5 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 14:09:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM197.D\data.ms

(125) Aramite (TM)

10.877min (-0.003) 2.64 ppm m

response 3218

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	36.48
319.10	22.50	10.28
0.00	0.00	0.00

Manual Integration:

After

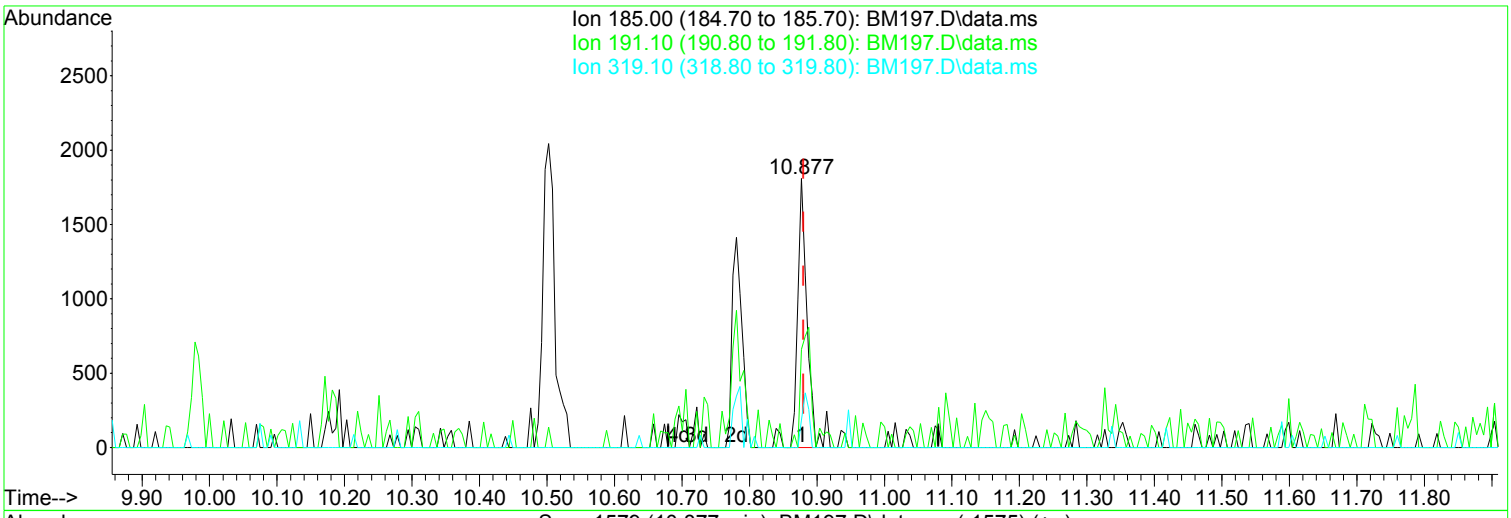
Split Peak.

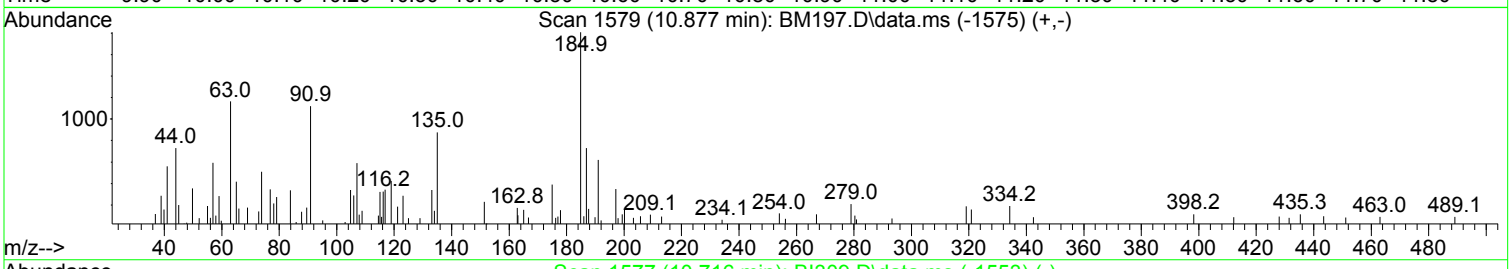
10/26/17

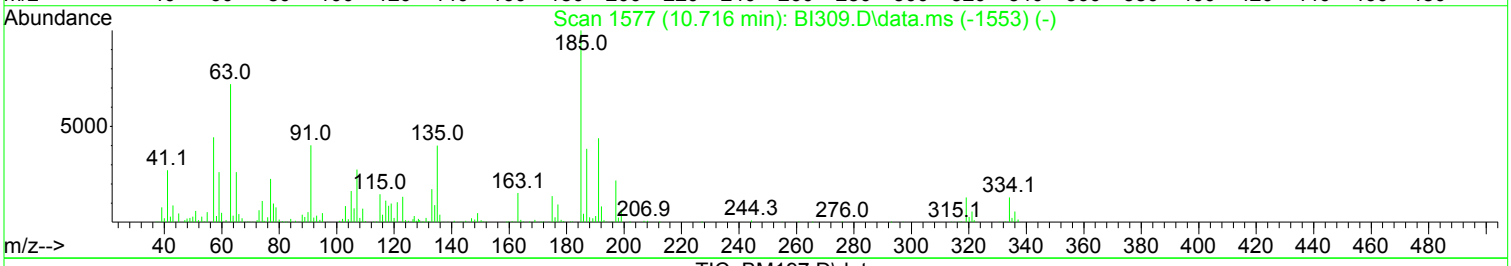
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM197.D
Acq On : 26 Oct 2017 10:22 am
Operator : J.Misiurewicz
Sample : 2.5 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 14:09:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM197.D\data.ms

(125) Aramite (TM)

10.877min (-0.003) 1.38 ppm

response 1684

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	34.25
319.10	22.50	10.28
0.00	0.00	0.00

Manual Integration:

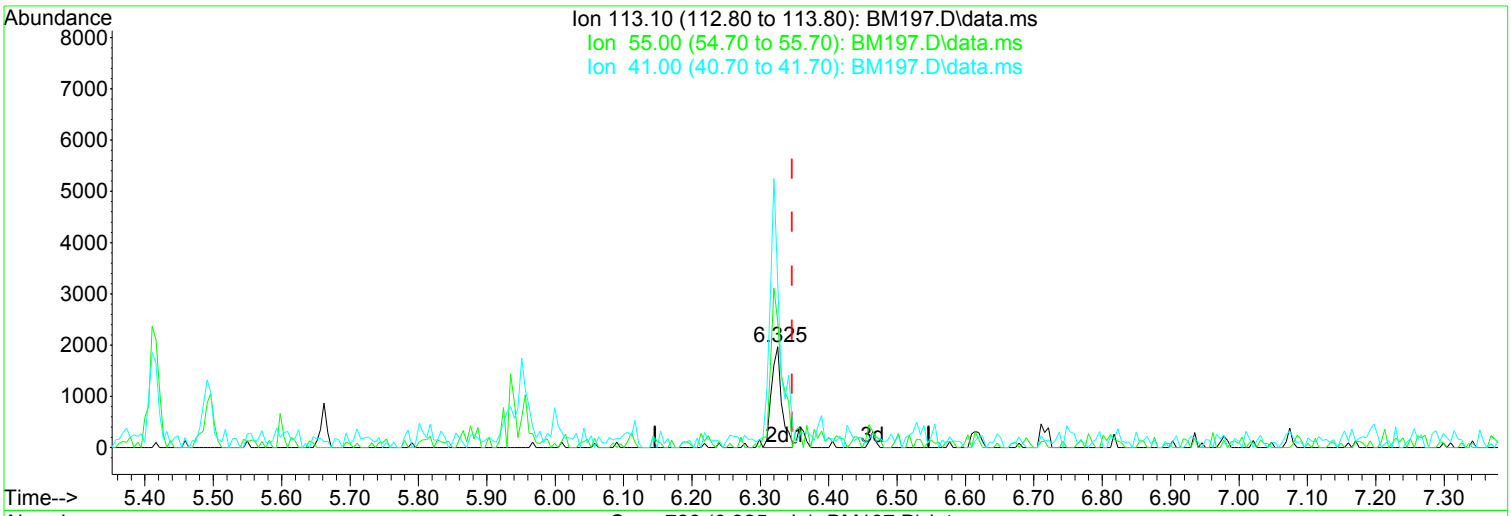
Before

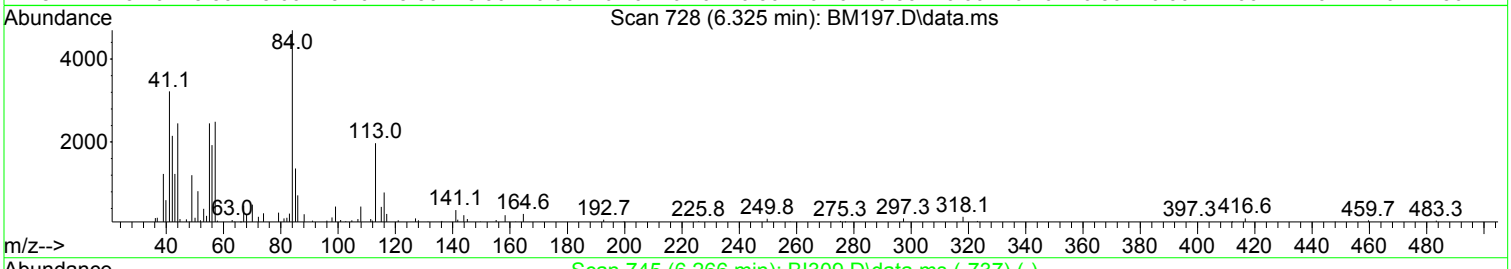
10/26/17

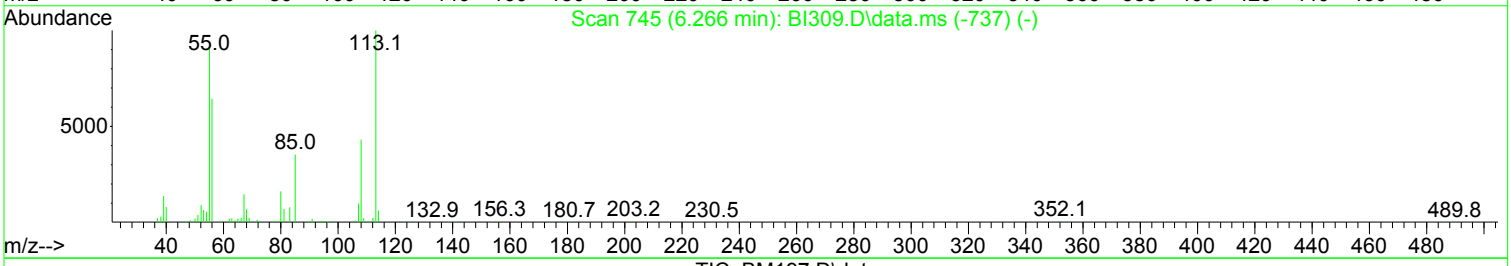
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM197.D
Acq On : 26 Oct 2017 10:22 am
Operator : J.Misiurewicz
Sample : 2.5 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 14:09:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM197.D\data.ms

(52) Caprolactam (TM)

6.325min (-0.021) 2.40 ppm m

response 2046

Ion	Exp%	Act%
113.10	100.00	100.00
55.00	148.80	124.37
41.00	89.10	163.40#
0.00	0.00	0.00

Manual Integration:

After

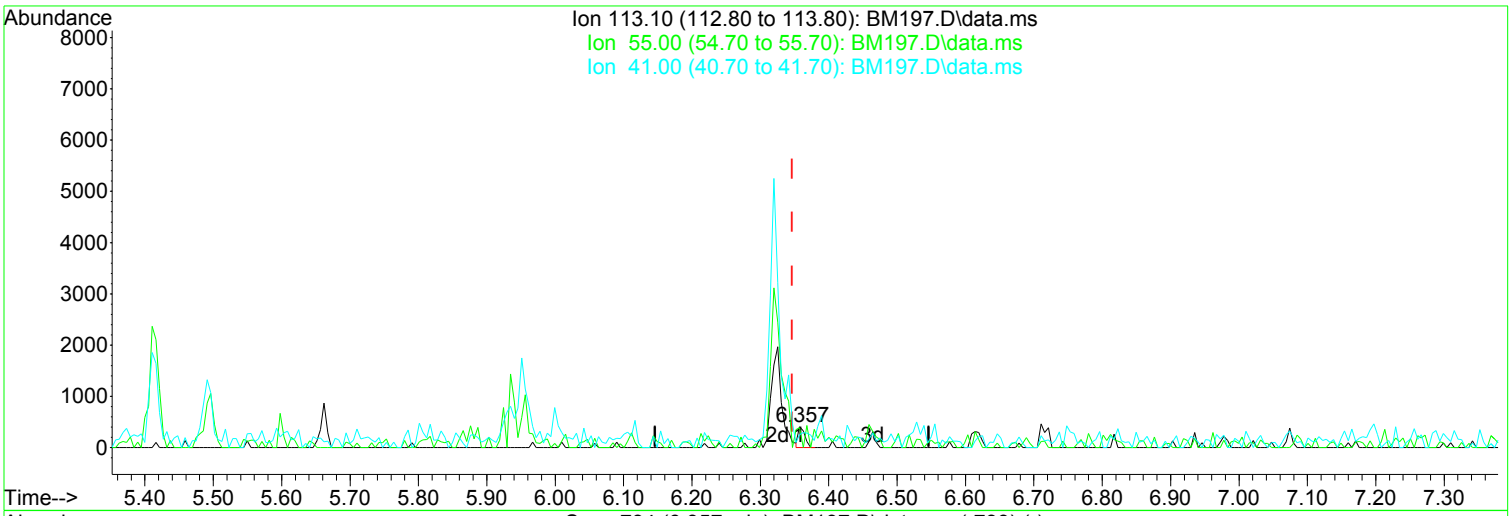
Peak not found.

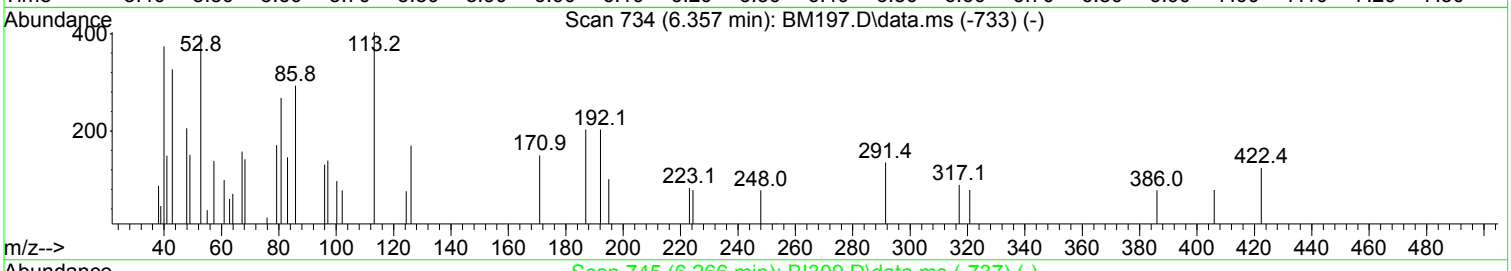
10/26/17

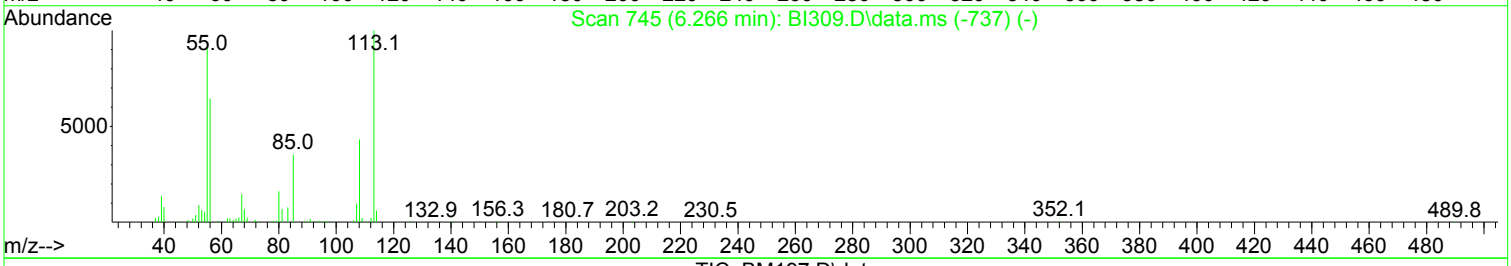
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM197.D
Acq On : 26 Oct 2017 10:22 am
Operator : J.Misiurewicz
Sample : 2.5 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 14:09:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM197.D\data.ms

(52) Caprolactam (TM)

6.357min (+ 0.011) 0.32 ppm

response 273

Ion	Exp%	Act%
113.10	100.00	100.00
55.00	148.80	34.24#
41.00	89.10	36.97#
0.00	0.00	0.00

Manual Integration:

Before

10/26/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM197.D
Acq On : 26 Oct 2017 10:22 am
Operator : J.Misiurewicz
Sample : 2.5 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 14:09:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.774	152	91437	40.00	ppm		0.00
33) d8-Naphthalene	5.935	136	359091	40.00	ppm		0.00
57) d10-Acenaphthene	7.641	164	182608	40.00	ppm		0.00
91) d10-Phenanthrene	9.107	188	336175	40.00	ppm		0.00
117) d12-Chrysene	12.380	240	323451	40.00	ppm		0.00
135) d12-Perylene	15.306	264	345906	40.00	ppm		0.00
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.704	112	7187	2.38	ppm		0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 1.19%#				
12) SURR2,PHENOL-D6	4.432	99	8385	2.33	ppm		0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 1.17%#				
34) SURR4,NITROBENZENE-D5	5.256	82	7297	2.27	ppm		0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 2.27%#				
63) SURR5,2-FLUOROBIPHENYL	6.973	172	16525	2.41	ppm		0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 2.41%#				
88) SURR3,2,4,6-TRIBROMOPH...	8.417	330	3219	2.68	ppm		0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 1.34%#				
124) SURR6,TERPHENYL-D14	10.802	244	19923	2.75	ppm		0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 2.75%#				
Target Compounds							Qvalue
2) Pyridine	2.785	79	6662	2.260	ppm		87
3) N-Nitrosodimethylamine	2.736	74	3816	2.448	ppm	#	70
4) 2-Picoline	3.303	93	7207	2.313	ppm		89
5) N-Nitrosomethylamine	3.362	42	4572	2.725	ppm	#	58
6) Methyl Methansulfonate	3.581	80	3529	2.253	ppm		82
8) N-Nitrosodiethylamine	3.886	102	3132	2.296	ppm		81
9) Ethyl Mathanesulfonate	4.111	79	5832	2.678	ppm		77
10) Benzaldehyde	4.405	106	4339	2.412	ppm	#	71
11) Aniline	4.485	93	10198	2.150	ppm		84
13) Phenol	4.443	94	9896	2.637	ppm		91
14) bis(2-Clethyl)Ether	4.534	93	7223	2.439	ppm		92
15) Pentachloroethane	4.539	117	2794	2.496	ppm		87
16) 2-Chlorophenol	4.592	128	7877	2.537	ppm		97
17) 1,3-Diclbenzene	4.726	146	9449	2.797	ppm		92
18) 1,4-Dichlorobenzene	4.790	146	8196	2.404	ppm		94
19) 1,2-Diclbenzene	4.924	146	7736	2.391	ppm	#	75
20) Benzyl Alcohol	4.876	79	6190	2.422	ppm		92
21) 1-Methyl-2-pyrrolidinone	4.903	99	4419	2.338	ppm	#	79
22) 2,2'-oxybis(1-Chloropr...	4.999	45	9988	2.327	ppm		91
23) 2-Methylphenol	4.967	108	6496	2.467	ppm		91
24) 3+4-Methylphenol	5.106	108	7206	2.488	ppm		87
25) Acetophenone	5.117	105	10104	2.429	ppm		81
26) N-Nitroso-Di-n-propyla...	5.111	70	5282	2.325	ppm	#	73
27) N-Nitrosopyrrolidine	5.101	100	3421	2.233	ppm		73
28) N-Nitrosomorpholine	5.133	56	5122	2.681	ppm		98
29) o-Toluidine	5.149	106	10888	2.385	ppm		92
30) Hexachloroethane	5.224	117	3418	2.406	ppm	#	79
31) o,o,o-Triethylphosphor...	5.662	198	2554	1.967	ppm		91
32) Alpha-terpinol	5.956	121	2633	2.274	ppm		85
35) Nitrobenzene	5.277	77	8091	2.257	ppm		97
36) N-Nitrosopiperidine	5.416	42	5227	2.463	ppm		93
37) Isophorone	5.491	82	15568	2.401	ppm		98
38) 2-Nitrophenol	5.571	139	3555	2.190	ppm		82

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM197.D
Acq On : 26 Oct 2017 10:22 am
Operator : J.Misiurewicz
Sample : 2.5 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 14:09:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 2,4-Dimethylphenol	5.598	107	6697	2.174	ppm		83
41) bis(-2-Chloroethoxy)Me...	5.689	93	9041	2.332	ppm		87
42) 2,4-Dichlorophenol	5.796	162	5915	2.342	ppm		84
43) a,a-Dimethylphenethyla...	5.876	58	8811	1.265	ppm		79
44) 1,2,4-Trichlorobenzene	5.876	180	7357	2.566	ppm		93
45) Naphthalene	5.951	128	23013	2.519	ppm		99
46) 4-Chloroaniline	6.004	127	9802	2.559	ppm		88
47) 2,6-Dichlorophenol	6.010	162	6505	2.560	ppm		86
48) Hexachlorobutadiene	6.063	225	4000	2.449	ppm		80
49) Hexachloropropene	6.037	213	4486	2.309	ppm		90
50) 4-Chloro-3-methylphenol	6.464	107	5307	2.135	ppm		84
51) N-N-di-n-butylamine	6.320	84	5822	2.591	ppm		85
52) Caprolactam	6.325	113	2046m	2.402	ppm		
53) p-Phenylenediamine	6.341	80	7578	5.123	ppm		96
54) Safrole	6.529	162	5437	2.311	ppm		93
55) 2-Methylnaphthalene	6.620	142	14839	2.443	ppm		87
56) 1-Methylnaphthalene	6.716	142	13623	2.472	ppm		80
58) Hexachlorocyclopentadiene	6.769	237	3757	2.060	ppm		90
59) 1,2,4,5-Tetrachloroben...	6.780	216	6800	2.300	ppm		92
60) 1,2,3,4-Tetrachloroben...	7.058	216	6044	2.275	ppm		95
61) 2,4,6-Trichlorophenol	6.892	196	4324	2.282	ppm		87
62) 2,4,5-Trichlorophenol	6.930	196	4724	2.501	ppm		96
64) Isosafrole	7.037	104	2664	2.255	ppm		91
65) 1,1'-Biphenyl	7.074	154	17542	2.334	ppm		84
66) 2-Chloronaphthalene	7.096	162	14129	2.408	ppm		97
67) 2-Nitroaniline	7.192	65	3380	2.095	ppm		77
68) 1,4-Naphthoquinone	7.267	158	1739	2.777	ppm		91
69) m-Dinitrobenzene	7.400	168	1750	1.914	ppm	#	60
70) Acenaphthylene	7.502	152	23429	2.538	ppm		96
71) Dimethyl phthalate	7.368	163	15618	2.458	ppm		98
72) 2,6-Dinitrotoluene	7.427	165	3612	2.300	ppm		88
73) Acenaphthene	7.673	153	14426	2.358	ppm		93
74) 3-Nitroaniline	7.593	138	3345	2.140	ppm		83
75) 2,4-Dinitrophenol	7.695	184	857	6.592	ppm		84
76) Dibenzofuran	7.839	168	21911	2.681	ppm		95
77) 2,4-Dinitrotoluene	7.823	165	3707	3.042	ppm		98
78) 4-Nitrophenol	7.764	65	2844	2.110	ppm	#	71
79) Pentachlorobenzene	7.802	250	6961	2.671	ppm		87
80) 1-Napthylamine	7.919	143	12168	2.565	ppm		81
81) 2-Napthylamine	7.994	143	12773	2.514	ppm		96
82) 2,3,4,6-Tetrachlorophenol	7.962	232	3499	2.400	ppm		95
83) Fluorene	8.181	166	17488	2.623	ppm		94
84) 4-Chlorophenyl-phenyle...	8.181	204	9755	2.790	ppm		84
85) Diethylphthalate	8.064	149	18056	2.655	ppm		94
86) 4-Nitroaniline	8.197	138	4091	2.338	ppm	#	76
87) 5-Nitro-o-toluidine	8.192	152	3910	2.150	ppm		76
89) Sulfotepp	8.454	322	2726	2.520	ppm		91
90) Octachlorocyclopentene	8.427	307	2228	1.939	ppm	#	64
92) Thionazin	8.144	107	2812	2.726	ppm		88
93) 4,6-Dinitro-2-methylph...	8.224	198	1311	4.455	ppm		84
94) Diphenylamine	8.294	169	23491	4.737	ppm		87
95) 1,2 Diphenylhydrazine	8.336	77	16704	2.431	ppm		97
96) N-Nitrosodiphenylamine	8.294	169	23491	4.737	ppm		87
97) 1,3,5-Trinirobenzene	8.556	213	678	1.249	ppm	#	60
98) Diallate	8.577	86	6725	2.938	ppm		87
99) Phorate	8.593	121	3058	2.622	ppm	#	67

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM197.D
Acq On : 26 Oct 2017 10:22 am
Operator : J.Misiurewicz
Sample : 2.5 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 26 14:09:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

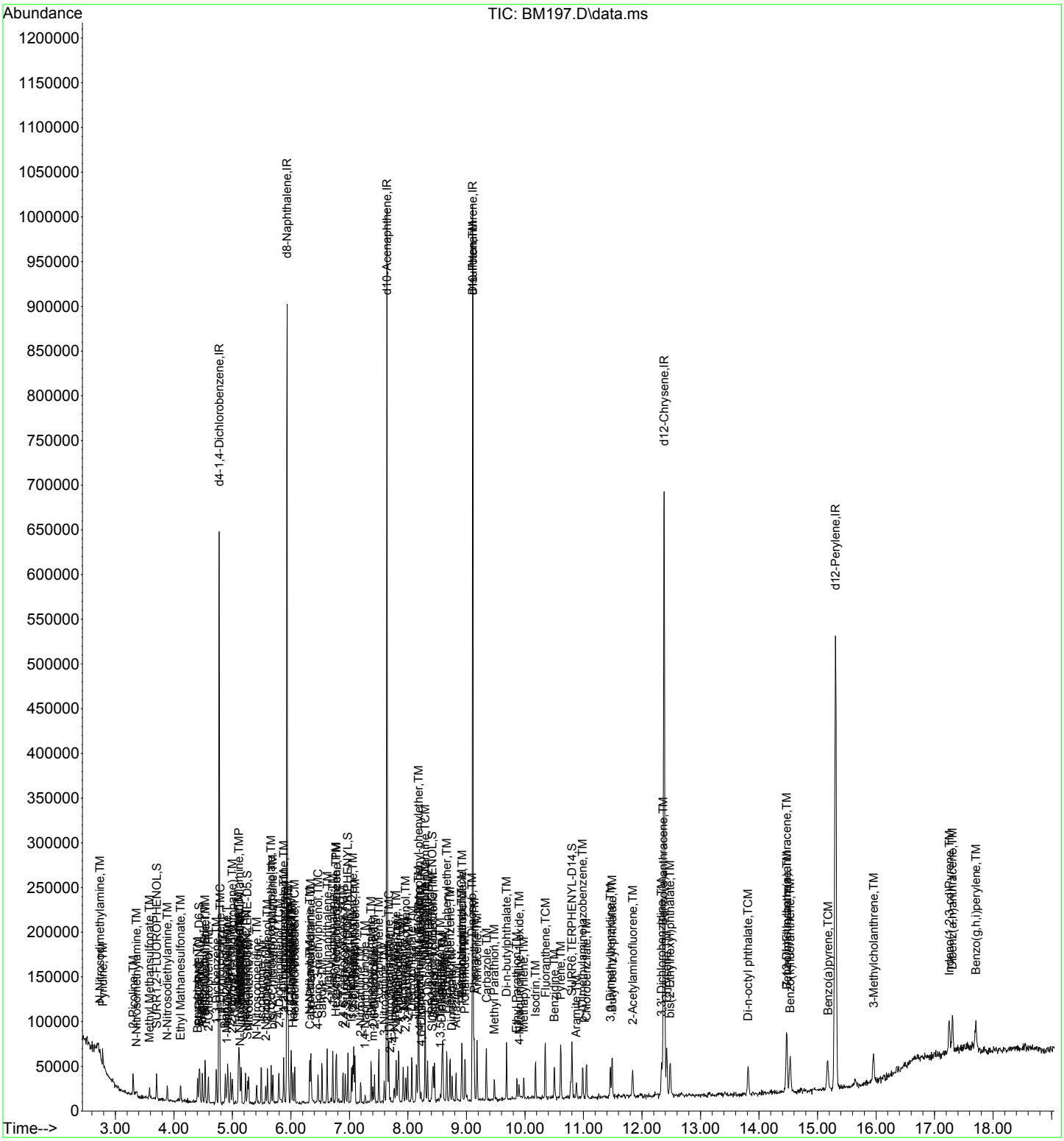
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
100) Phenacetin	8.598	108	7761	2.371	ppm		94
101) 4-Bromophenyl-phenylether	8.663	248	6117	2.902	ppm		94
102) Hexachlorobenzene	8.722	284	6120	2.670	ppm		82
103) Dimethoate	8.754	87	5018	2.489	ppm		89
104) Atrazine	8.823	215	1720	2.874	ppm	#	54
105) Pentachlorophenol	8.919	266	1273	3.876	ppm	#	71
106) 4-Aminobiphenyl	8.919	169	12187	2.204	ppm		96
107) Pentachloronitrobenzene	8.925	237	1467	1.795	ppm		67
108) Pronamide	8.973	173	6118	2.160	ppm		92
109) Dinoseb	9.096	211	1437	1.012	ppm		72
110) Disulfoton	9.107	88	9494	3.585	ppm		76
111) Phenanthrene	9.133	178	24732	2.733	ppm		97
112) Anthracene	9.181	178	24492	2.741	ppm		97
113) Carbazole	9.342	167	23116	2.583	ppm		96
114) Di-n-butylphthalate	9.684	149	27484	2.385	ppm		96
115) 4-Nitroquinonline-1-oxide	9.904	190	924	1.310	ppm		84
116) Fluoranthene	10.348	202	26806	2.712	ppm		97
118) Methyl Parathion	9.476	109	3455	2.269	ppm		78
119) Ethyl Parathion	9.861	97	2182	1.738	ppm		90
120) Methapyrilene	9.978	58	6046	2.325	ppm		98
121) Isodrin	10.182	193	2218	2.328	ppm		66
122) Benzidine	10.503	184	14364	2.403	ppm		92
123) Pyrene	10.610	202	27629	2.822	ppm		96
125) Aramite	10.877	185	3218m	2.639	ppm		
126) p-(Dimethylamino)azobe...	10.984	120	6786	2.509	ppm		87
127) Chlorobenzilate	11.048	139	7980	2.502	ppm		92
128) Butyl benzyl phthalate	11.492	149	12879	2.657	ppm		99
129) 3,3-Dimethylbenzidine	11.460	212	13126	2.309	ppm		87
130) 2-Acetylaminofluorene	11.840	181	8678	2.199	ppm		92
131) 3,3'-Dichlorobenzidine	12.332	252	9216	2.279	ppm		90
132) Benzo(a)anthracene	12.359	228	25808	2.722	ppm		95
133) Chrysene	12.423	228	23117	2.535	ppm		97
134) bis(2-Ethylhexyl)phtha...	12.482	149	16705	2.351	ppm		94
136) Di-n-octyl phthalate	13.813	149	25968	2.181	ppm		90
137) 7,12-Dimethylbenz(a)an...	14.471	256	10049	2.239	ppm		94
138) Benzo(b)Fluoranthene	14.477	252	25012	2.405	ppm		88
139) Benzo(k)fluoranthene	14.530	252	23589	2.361	ppm		91
140) Benzo(a)pyrene	15.177	252	21516	2.364	ppm		95
141) 3-Methylcholanthrene	15.958	268	12321	2.355	ppm		91
142) Indeno(1,2,3-cd)Pyrene	17.253	276	23878	2.629	ppm		83
143) Dibenz(a,h)anthracene	17.306	278	23183	2.418	ppm		96
144) Benzo(g,h,i)perylene	17.707	276	22603	2.552	ppm		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM197.D
Acq On : 26 Oct 2017 10:22 am
Operator : J.Misiurewicz
Sample : 2.5 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 4 Sample Multiplier: 1

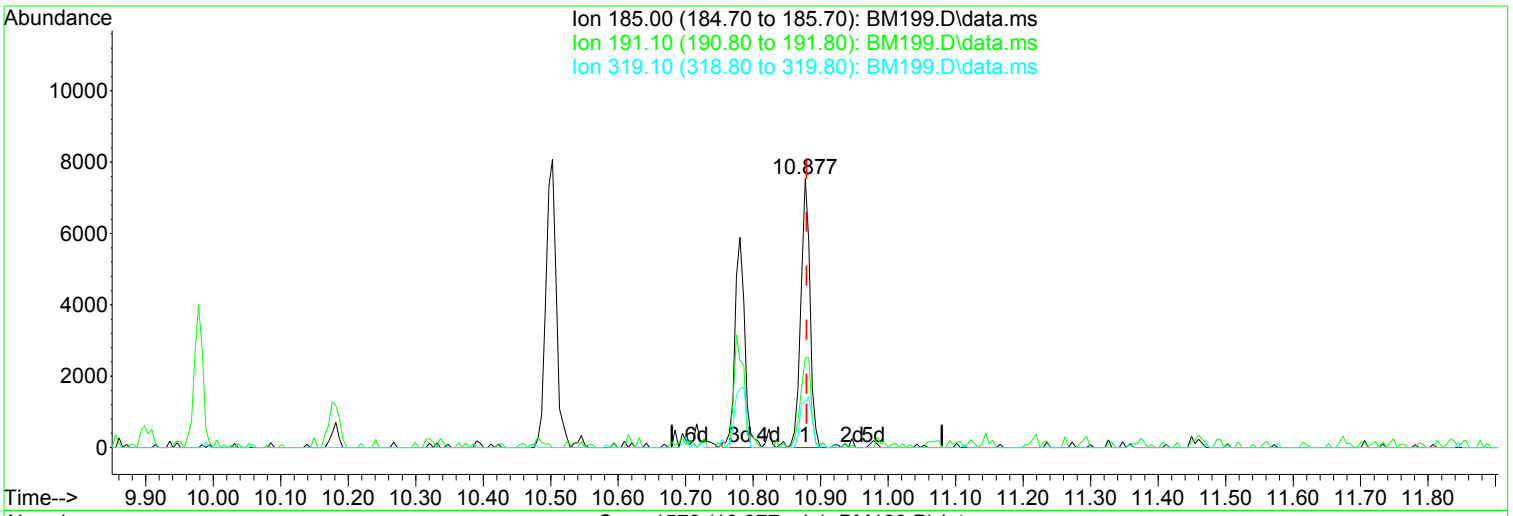
Quant Time: Oct 26 14:09:18 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

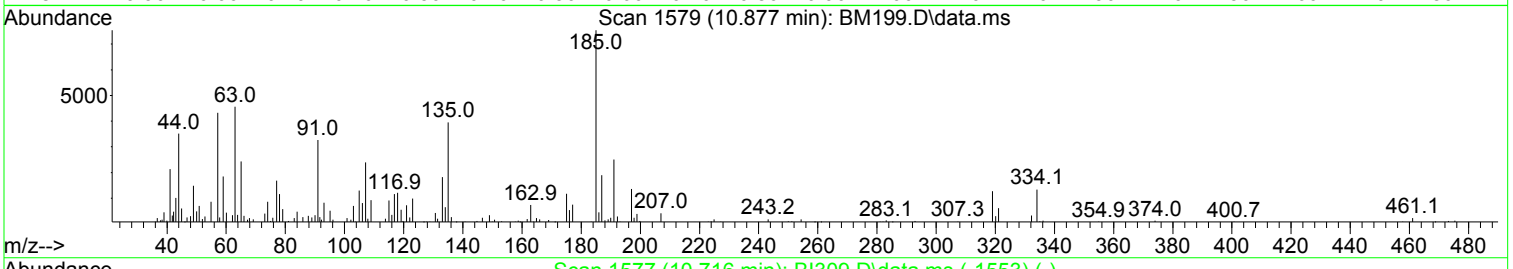


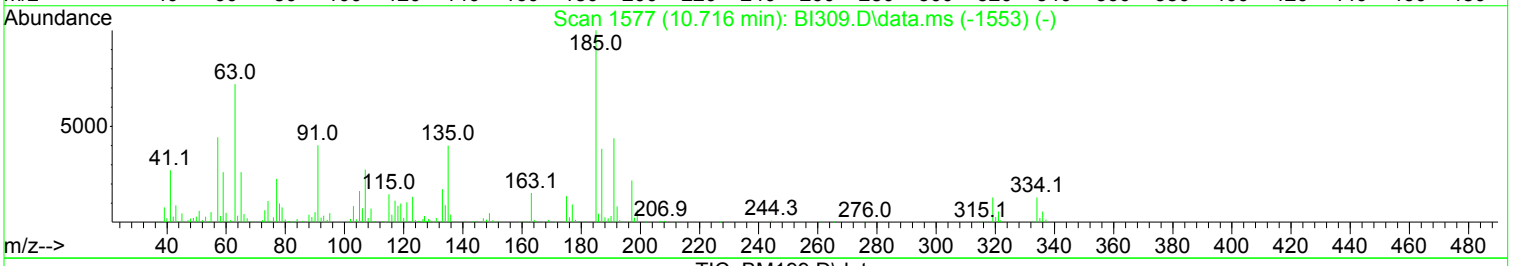
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM199.D
Acq On : 26 Oct 2017 11:19 am
Operator : J.Misiurewicz
Sample : 10 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 14:09:32 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM199.D\data.ms

(125) Aramite (TM)

10.877min (-0.003) 9.44 ppm m

response 13406

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	33.28
319.10	22.50	16.91
0.00	0.00	0.00

Manual Integration:

After

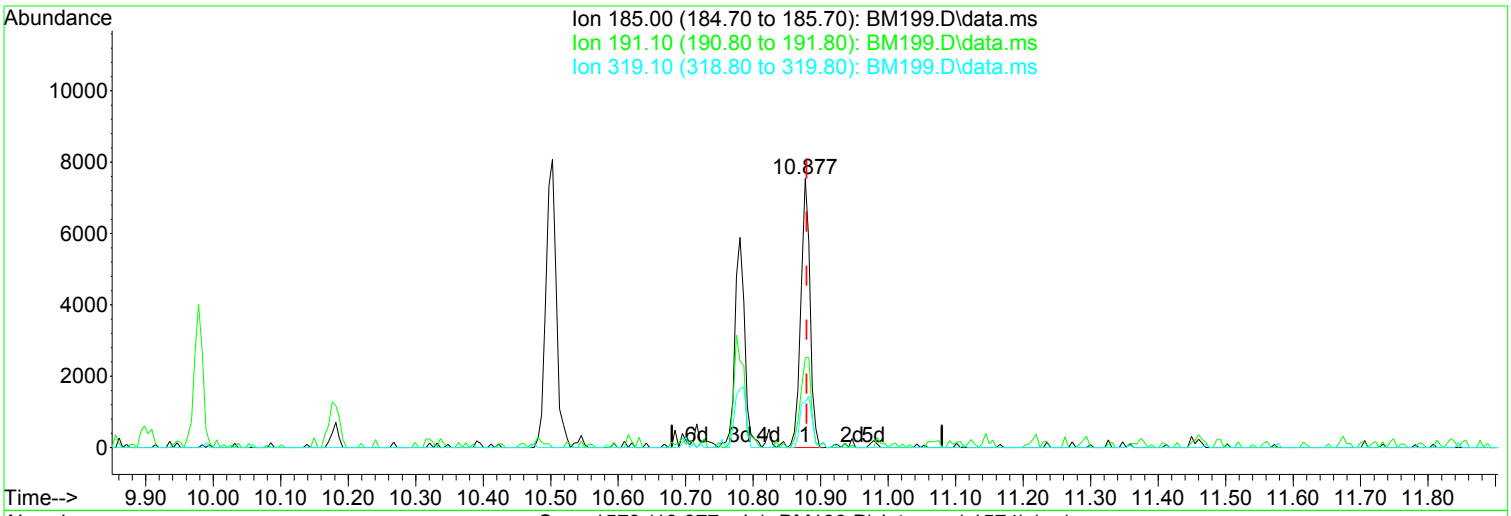
Split Peak.

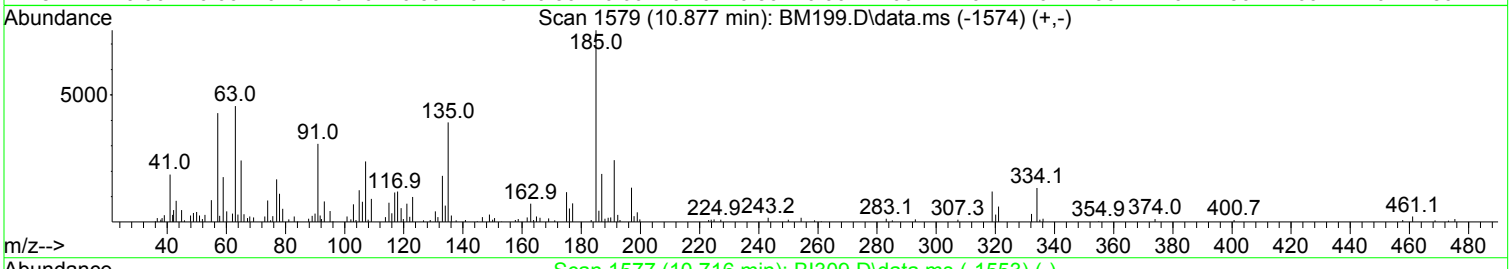
10/26/17

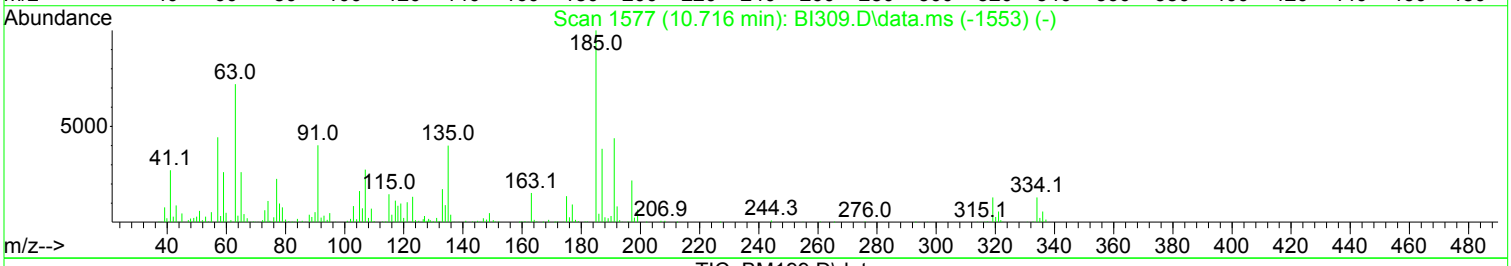
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM199.D
Acq On : 26 Oct 2017 11:19 am
Operator : J.Misiurewicz
Sample : 10 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 14:09:32 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM199.D\data.ms

(125) Aramite (TM)

10.877min (-0.003) 5.01 ppm

response 7118

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	32.36
319.10	22.50	16.00
0.00	0.00	0.00

Manual Integration:

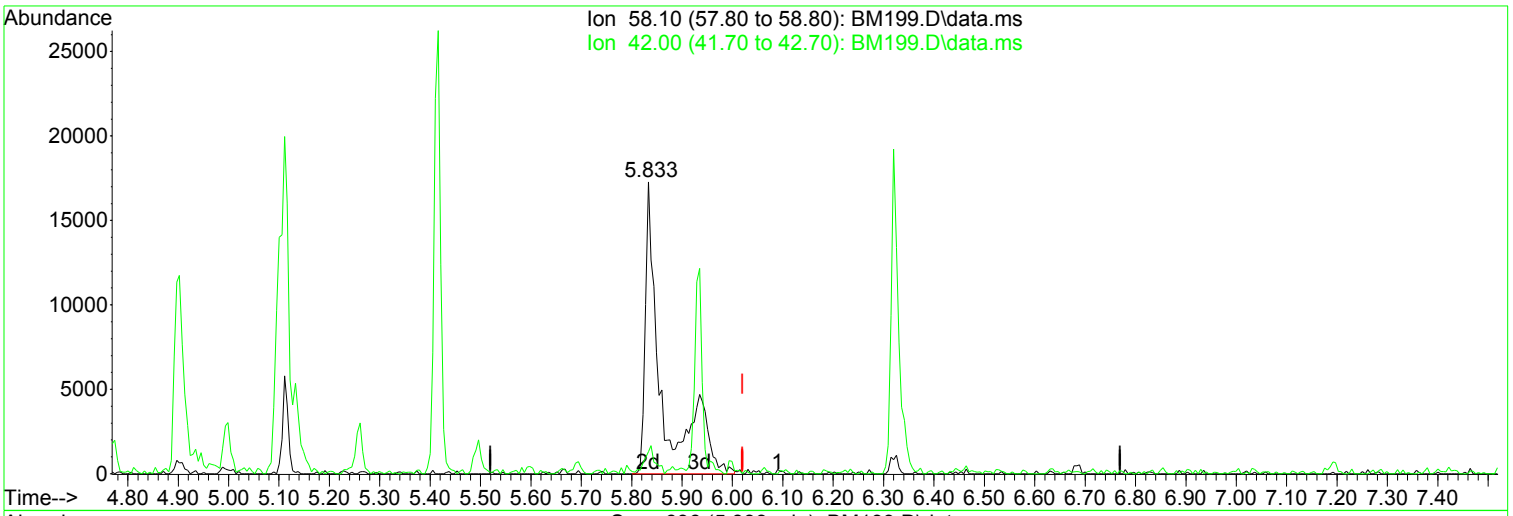
Before

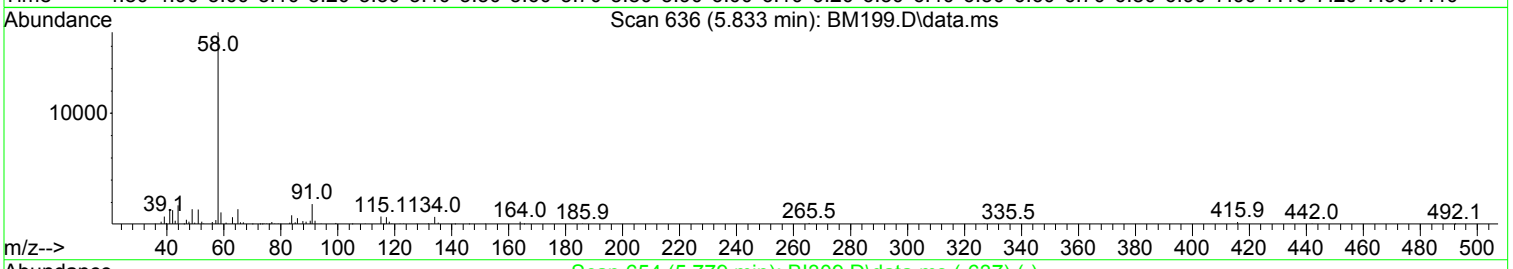
10/26/17

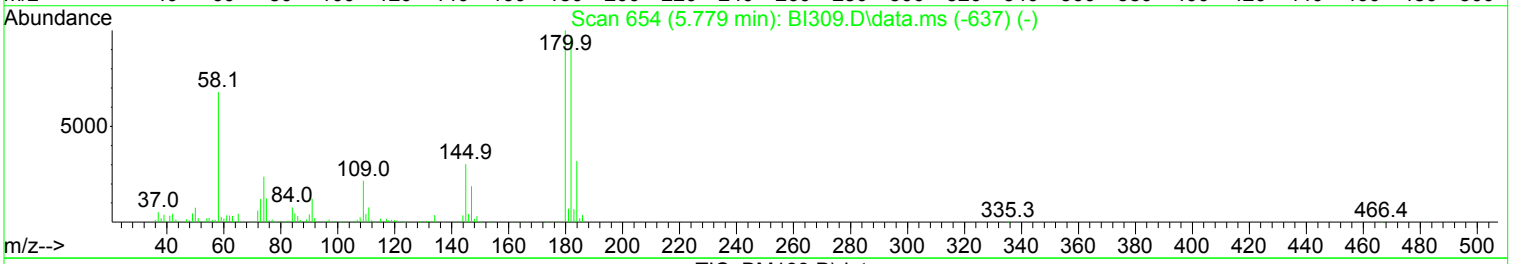
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM199.D
Acq On : 26 Oct 2017 11:19 am
Operator : J.Misiurewicz
Sample : 10 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 14:09:32 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM199.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

5.833min (-0.187) 5.07 ppm m

response 39396

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	7.54
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

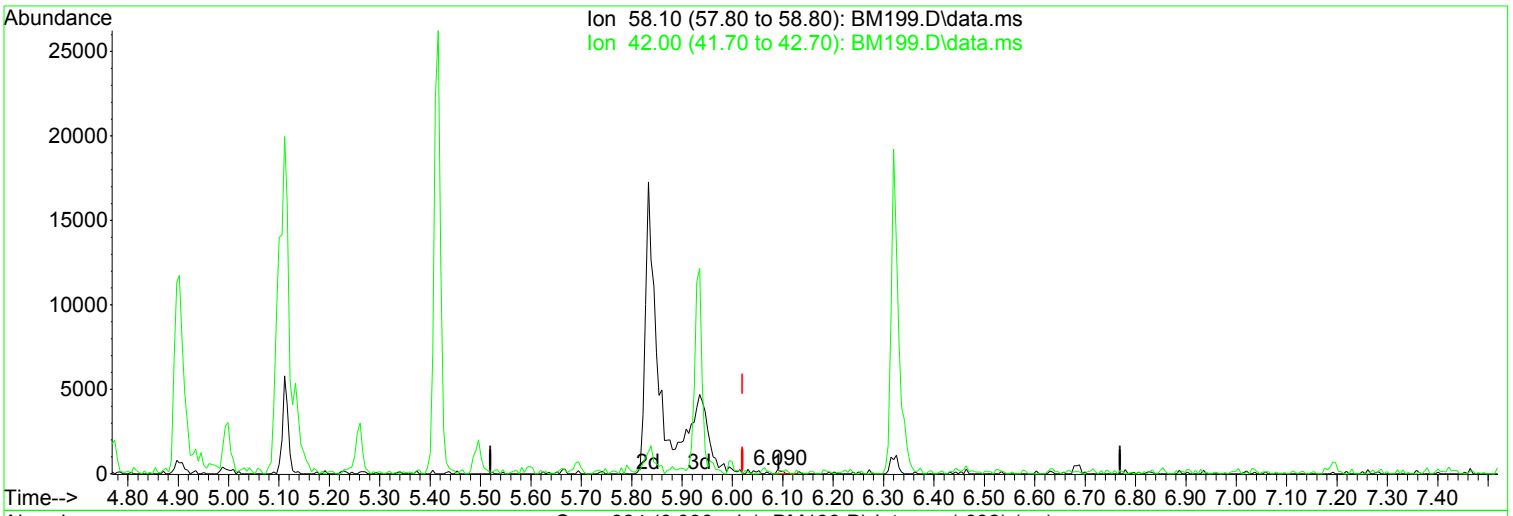
Peak not found.

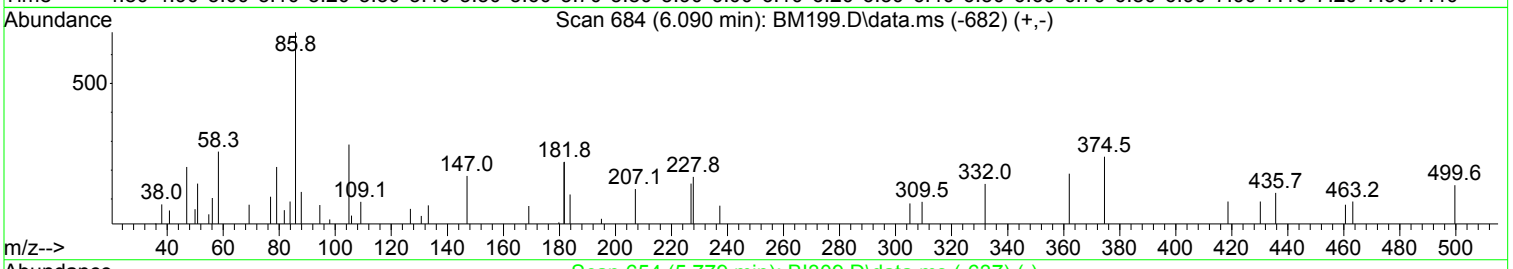
10/26/17

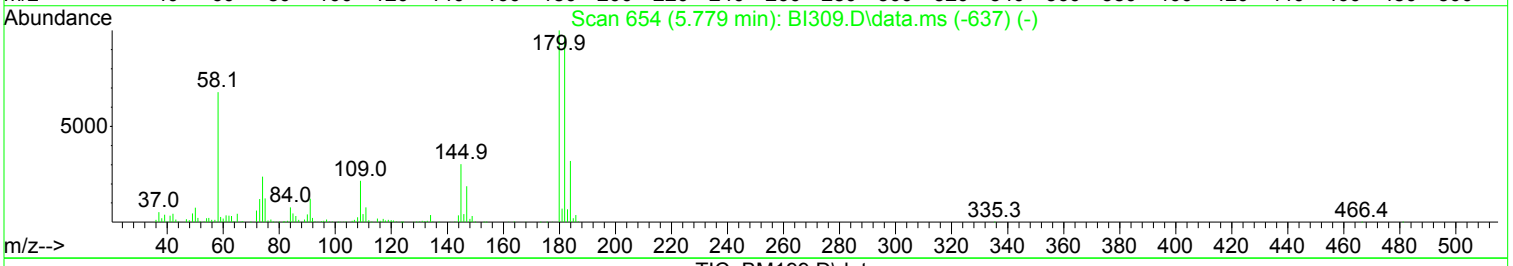
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM199.D
Acq On : 26 Oct 2017 11:19 am
Operator : J.Misiurewicz
Sample : 10 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 14:09:32 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM199.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.090min (+ 0.070) 0.02 ppm

response 177

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM199.D
Acq On : 26 Oct 2017 11:19 am
Operator : J.Misiurewicz
Sample : 10 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 14:09:32 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	103990	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	400368	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	202045	40.00	ppm	0.00
91) d10-Phenanthrene	9.107	188	317586	40.00	ppm	0.00
117) d12-Chrysene	12.375	240	376917	40.00	ppm	0.00
135) d12-Perylene	15.306	264	352836	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.704	112	34993	10.20	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery =	5.10%#		
12) SURR2,PHENOL-D6	4.432	99	37651	9.20	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery =	4.60%#		
34) SURR4,NITROBENZENE-D5	5.261	82	36514	10.18	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery =	10.18%#		
63) SURR5,2-FLUOROBIPHENYL	6.972	172	74180	9.79	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery =	9.79%#		
88) SURR3,2,4,6-TRIBROMOPH...	8.417	330	11605	8.74	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery =	4.37%#		
124) SURR6,TERPHENYL-D14	10.802	244	75665	8.98	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery =	8.98%#		
Target Compounds						Qvalue
2) Pyridine	2.774	79	33911	10.116	ppm	96
3) N-Nitrosodimethylamine	2.736	74	17014	9.599	ppm	97
4) 2-Picoline	3.298	93	34960	9.866	ppm	90
5) N-Nitrosomethylamine	3.367	42	17742	9.297	ppm	89
6) Methyl Methansulfonate	3.581	80	17923	10.063	ppm	90
8) N-Nitrosodiethylamine	3.886	102	14331	9.236	ppm	85
9) Ethyl Mathanesulfonate	4.111	79	22326	9.014	ppm	95
10) Benzaldehyde	4.405	106	20745	10.141	ppm	95
11) Aniline	4.485	93	52779	9.786	ppm	96
13) Phenol	4.442	94	39338	9.218	ppm	97
14) bis(2-Clethyl)Ether	4.533	93	31092	9.231	ppm	96
15) Pentachloroethane	4.533	117	11842	9.302	ppm	98
16) 2-Chlorophenol	4.592	128	32249	9.134	ppm	98
17) 1,3-Diclbenzene	4.726	146	34282	8.924	ppm	96
18) 1,4-Dichlorobenzene	4.790	146	38133	9.835	ppm	97
19) 1,2-Diclbenzene	4.924	146	36367	9.883	ppm	96
20) Benzyl Alcohol	4.881	79	28638	9.854	ppm	93
21) 1-Methyl-2-pyrrolidinone	4.902	99	21970	10.222	ppm	97
22) 2,2'-oxybis(1-Chloropr...	4.999	45	48689	9.973	ppm	96
23) 2-Methylphenol	4.972	108	29028	9.692	ppm	90
24) 3+4-Methylphenol	5.106	108	32393	9.833	ppm	93
25) Acetophenone	5.122	105	48250	10.199	ppm	95
26) N-Nitroso-Di-n-propyla...	5.111	70	24982	9.671	ppm	93
27) N-Nitrosopyrrolidine	5.100	100	18112	10.397	ppm	87
28) N-Nitrosomorpholine	5.132	56	22143	10.192	ppm	98
29) o-Toluidine	5.149	106	53049	10.216	ppm	98
30) Hexachloroethane	5.223	117	15750	9.748	ppm	95
31) o,o,o-Triethylphosphor...	5.662	198	13582	9.198	ppm	94
32) Alpha-terpinol	5.956	121	12565	9.541	ppm	90
35) Nitrobenzene	5.277	77	38893	9.729	ppm	97
36) N-Nitrosopiperidine	5.416	42	23621	9.983	ppm	93
37) Isophorone	5.491	82	73062	10.106	ppm	98
38) 2-Nitrophenol	5.571	139	17542	9.694	ppm	88

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM199.D
Acq On : 26 Oct 2017 11:19 am
Operator : J.Misiurewicz
Sample : 10 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 26 14:09:32 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.657	105	6528	3.466	ppm		90
40) 2,4-Dimethylphenol	5.598	107	34786	10.127	ppm		97
41) bis(-2-Chloroethoxy)Me...	5.689	93	43841	10.142	ppm		99
42) 2,4-Dichlorophenol	5.796	162	28070	9.969	ppm		92
43) a,a-Dimethylphenethyla...	5.833	58	39396m	5.073	ppm		
44) 1,2,4-Trichlorobenzene	5.876	180	30924	9.673	ppm		95
45) Naphthalene	5.951	128	100470	9.863	ppm		99
46) 4-Chloroaniline	5.999	127	41272	9.665	ppm		98
47) 2,6-Dichlorophenol	6.010	162	27140	9.580	ppm		90
48) Hexachlorobutadiene	6.063	225	18668	10.250	ppm		86
49) Hexachloropropene	6.036	213	20217	9.331	ppm		85
50) 4-Chloro-3-methylphenol	6.464	107	28588	10.317	ppm		97
51) N-N-di-n-butylamine	6.320	84	29252	11.675	ppm		98
52) Caprolactam	6.325	113	9396	9.893	ppm	#	72
53) p-Phenylenediamine	6.341	80	38462	23.320	ppm		88
54) Safrole	6.534	162	25874	9.866	ppm		96
55) 2-Methylnaphthalene	6.619	142	67785	10.008	ppm		95
56) 1-Methylnaphthalene	6.716	142	61104	9.944	ppm		99
58) Hexachlorocyclopentadiene	6.769	237	19132	9.479	ppm		91
59) 1,2,4,5-Tetrachloroben...	6.780	216	30801	9.414	ppm		97
60) 1,2,3,4-Tetrachloroben...	7.058	216	29940	10.186	ppm		98
61) 2,4,6-Trichlorophenol	6.892	196	19574	9.336	ppm		100
62) 2,4,5-Trichlorophenol	6.930	196	21233	10.162	ppm		92
64) Isosafrole	7.037	104	12547	9.597	ppm	#	78
65) 1,1'-Biphenyl	7.074	154	83166	10.000	ppm		98
66) 2-Chloronaphthalene	7.095	162	62602	9.641	ppm		95
67) 2-Nitroaniline	7.192	65	17397	9.744	ppm		92
68) 1,4-Naphthoquinone	7.272	158	7716	11.138	ppm		90
69) m-Dinitrobenzene	7.400	168	8096	8.002	ppm	#	50
70) Acenaphthylene	7.502	152	97867	9.582	ppm		97
71) Dimethyl phthalate	7.368	163	73317	10.431	ppm		99
72) 2,6-Dinitrotoluene	7.427	165	18407	10.595	ppm		97
73) Acenaphthene	7.673	153	69855	10.321	ppm		98
74) 3-Nitroaniline	7.593	138	14156	8.184	ppm	#	69
75) 2,4-Dinitrophenol	7.700	184	3599	10.090	ppm		71
76) Dibenzofuran	7.839	168	88493	9.785	ppm		100
77) 2,4-Dinitrotoluene	7.823	165	17107	9.122	ppm		88
78) 4-Nitrophenol	7.764	65	11860	7.954	ppm		82
79) Pentachlorobenzene	7.796	250	28679	9.946	ppm		96
80) 1-Napthylamine	7.919	143	52123	9.929	ppm		90
81) 2-Napthylamine	7.994	143	54544	9.701	ppm		95
82) 2,3,4,6-Tetrachlorophenol	7.962	232	14056	8.713	ppm		86
83) Fluorene	8.181	166	72463	9.823	ppm		94
84) 4-Chlorophenyl-phenyle...	8.176	204	37442	9.680	ppm		95
85) Diethylphthalate	8.064	149	70037	9.309	ppm		98
86) 4-Nitroaniline	8.192	138	17383	8.978	ppm		90
87) 5-Nitro-o-toluidine	8.187	152	17240	8.566	ppm		82
89) Sulfotepp	8.454	322	10915	9.120	ppm		95
90) Octachlorocyclopentene	8.427	307	12062	9.488	ppm		98
92) Thionazin	8.144	107	10097	10.362	ppm		84
93) 4,6-Dinitro-2-methylph...	8.224	198	7047	10.010	ppm		93
94) Diphenylamine	8.294	169	108073	23.070	ppm		97
95) 1,2 Diphenylhydrazine	8.336	77	75979	11.707	ppm		91
96) N-Nitrosodiphenylamine	8.294	169	108073	23.069	ppm		97
97) 1,3,5-Trinirobenzene	8.556	213	4023	7.842	ppm	#	8
98) Diallate	8.577	86	23969	11.086	ppm		81

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM199.D
Acq On : 26 Oct 2017 11:19 am
Operator : J.Misiurewicz
Sample : 10 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

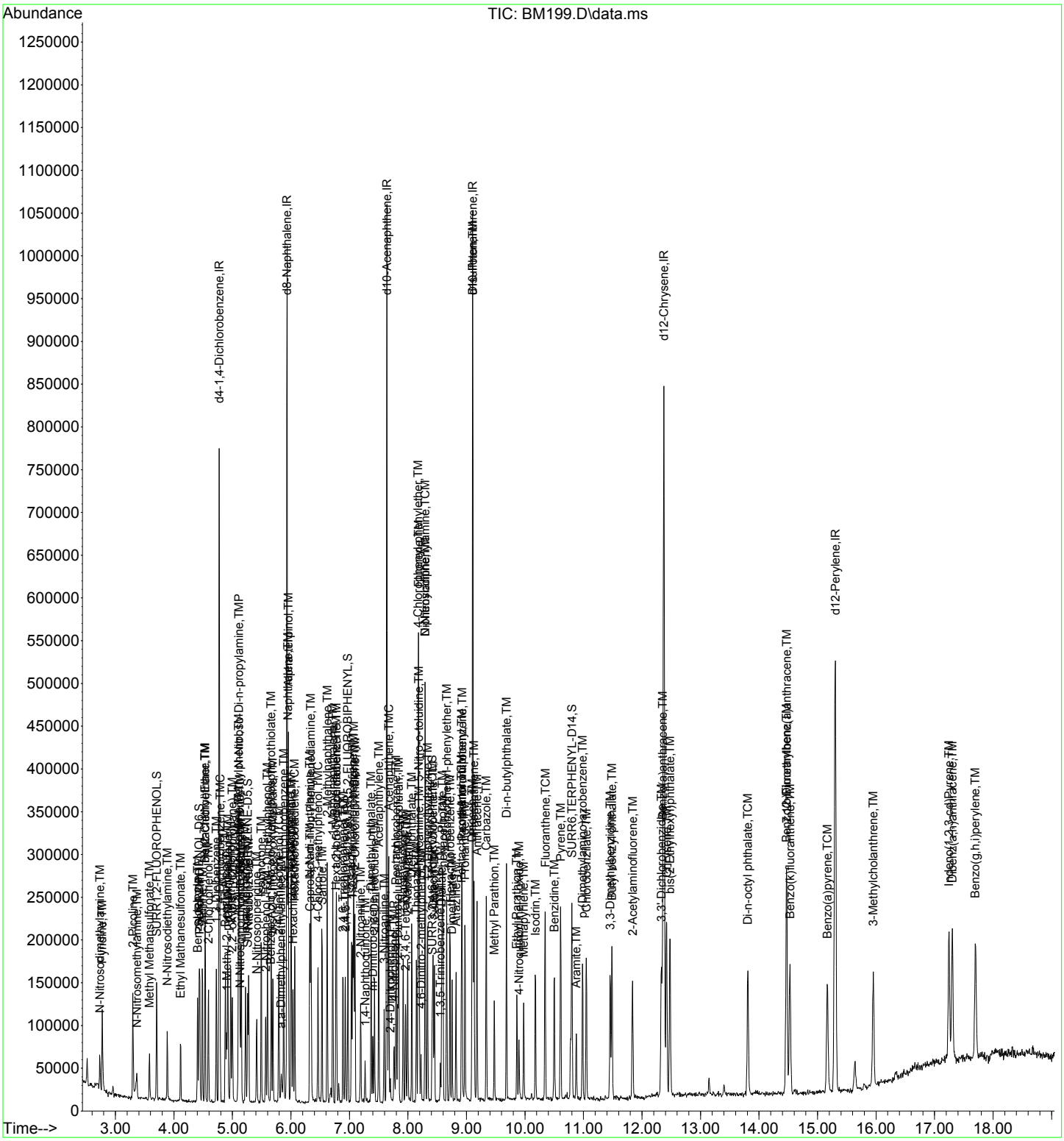
Quant Time: Oct 26 14:09:32 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99) Phorate	8.588	121	11384	10.331	ppm	#	76
100) Phenacetin	8.598	108	34036	11.004	ppm		91
101) 4-Bromophenyl-phenylether	8.663	248	23509	11.804	ppm		93
102) Hexachlorobenzene	8.721	284	25613	11.827	ppm		90
103) Dimethoate	8.754	87	22704	11.923	ppm		99
104) Atrazine	8.823	215	7818	13.828	ppm		89
105) Pentachlorophenol	8.914	266	8274	10.042	ppm		89
106) 4-Aminobiphenyl	8.919	169	56240	10.765	ppm		97
107) Pentachloronitrobenzene	8.925	237	7462	9.667	ppm		92
108) Pronamide	8.973	173	28292	10.572	ppm		95
109) Dinoseb	9.096	211	8990	6.699	ppm		90
110) Disulfoton	9.107	88	24313	9.719	ppm		91
111) Phenanthrene	9.128	178	86529	10.123	ppm		97
112) Anthracene	9.181	178	82759	9.805	ppm		100
113) Carbazole	9.337	167	96380	11.400	ppm		95
114) Di-n-butylphthalate	9.684	149	120002	11.025	ppm		99
115) 4-Nitroquinonline-1-oxide	9.898	190	5347	8.022	ppm		77
116) Fluoranthene	10.347	202	97050	10.393	ppm		99
118) Methyl Parathion	9.476	109	16136	9.094	ppm		83
119) Ethyl Parathion	9.861	97	10981	7.507	ppm		82
120) Methapyrilene	9.978	58	30234	9.976	ppm		98
121) Isodrin	10.182	193	9424	8.487	ppm		89
122) Benzidine	10.503	184	61141	8.776	ppm		97
123) Pyrene	10.609	202	101511	8.897	ppm		99
125) Aramite	10.877	185	13406m	9.436	ppm		
126) p-(Dimethylamino)azobe...	10.984	120	29299	9.296	ppm		96
127) Chlorobenzilate	11.048	139	35320	9.504	ppm		95
128) Butyl benzyl phthalate	11.487	149	50423	8.926	ppm		93
129) 3,3-Dimethylbenzidine	11.455	212	59531	8.987	ppm		95
130) 2-Acetylaminofluorene	11.840	181	40394	8.782	ppm		95
131) 3,3'-Dichlorobenzidine	12.332	252	44836	9.514	ppm		99
132) Benzo(a)anthracene	12.353	228	105935	9.589	ppm		98
133) Chrysene	12.423	228	105574	9.936	ppm		97
134) bis(2-Ethylhexyl)phtha...	12.482	149	81574	9.852	ppm		95
136) Di-n-octyl phthalate	13.808	149	118154	9.727	ppm		100
137) 7,12-Dimethylbenz(a)an...	14.471	256	44886	9.806	ppm		92
138) Benzo(b)Fluoranthene	14.466	252	98217	9.258	ppm		97
139) Benzo(k)fluoranthene	14.530	252	97608	9.578	ppm		96
140) Benzo(a)pyrene	15.167	252	89841	9.678	ppm		98
141) 3-Methylcholanthrene	15.953	268	52528	9.842	ppm		93
142) Indeno(1,2,3-cd)Pyrene	17.247	276	95676	10.326	ppm		98
143) Dibenz(a,h)anthracene	17.306	278	97880	10.007	ppm		96
144) Benzo(g,h,i)perylene	17.696	276	94166	10.425	ppm		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM199.D
Acq On : 26 Oct 2017 11:19 am
Operator : J.Misiurewicz
Sample : 10 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 6 Sample Multiplier: 1

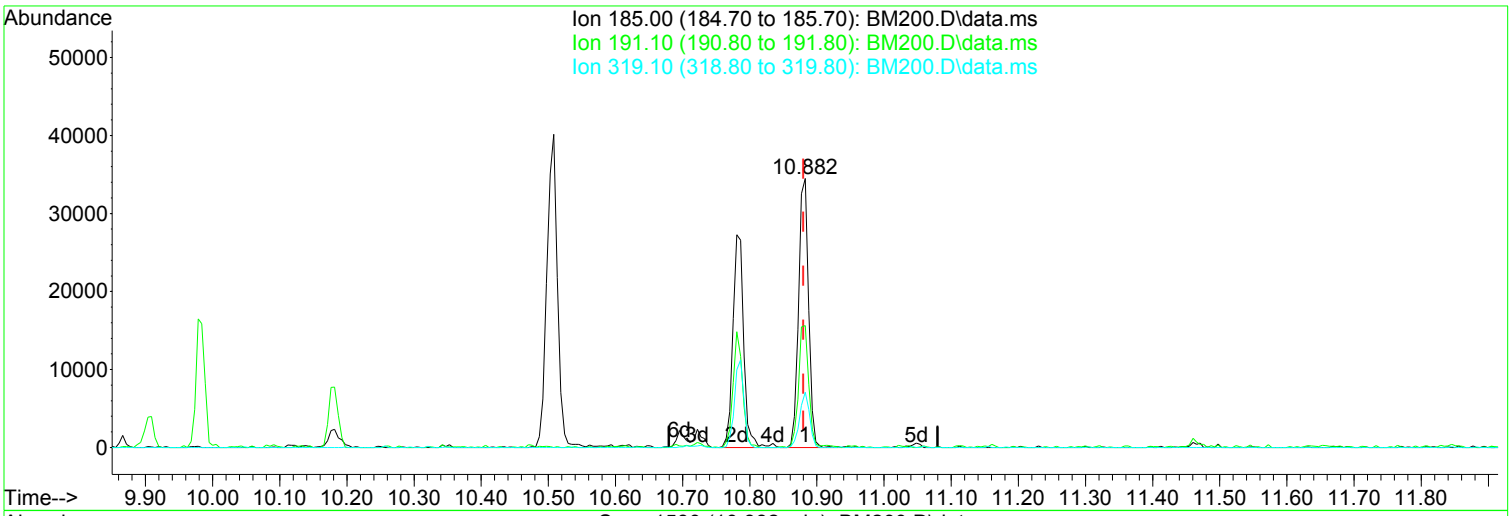
Quant Time: Oct 26 14:09:32 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

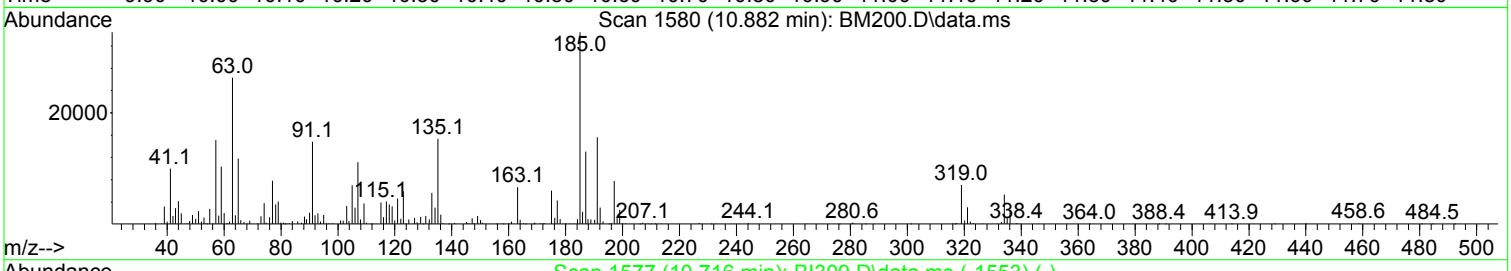


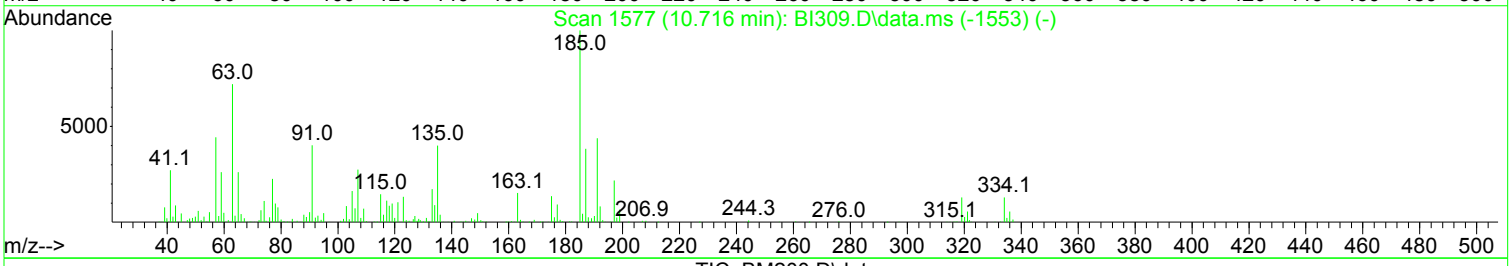
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM200.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 50.96 ppm m

response 65897

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	45.30
319.10	22.50	20.54
0.00	0.00	0.00

Manual Integration:

After

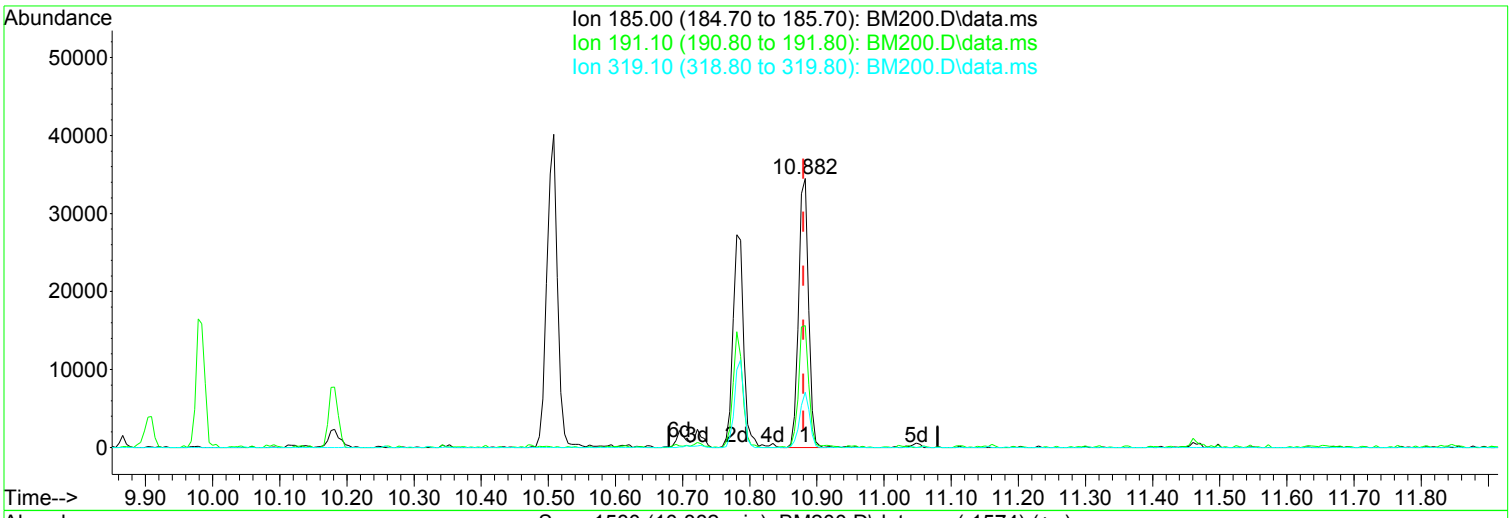
Split Peak.

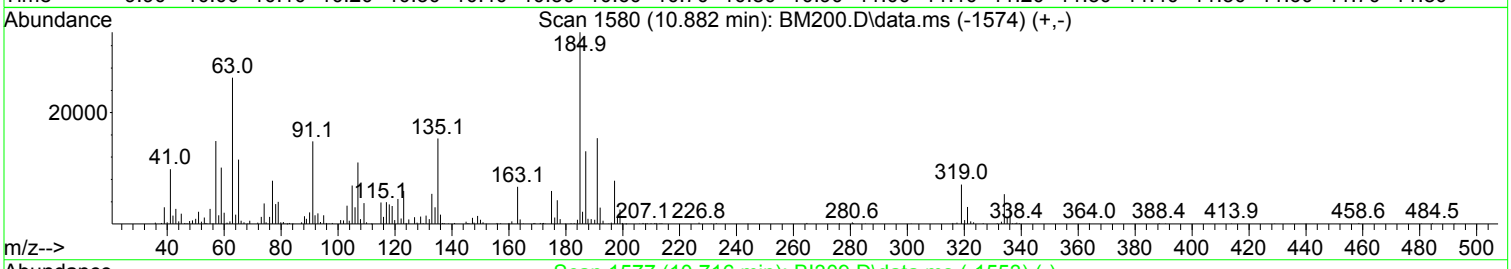
10/26/17

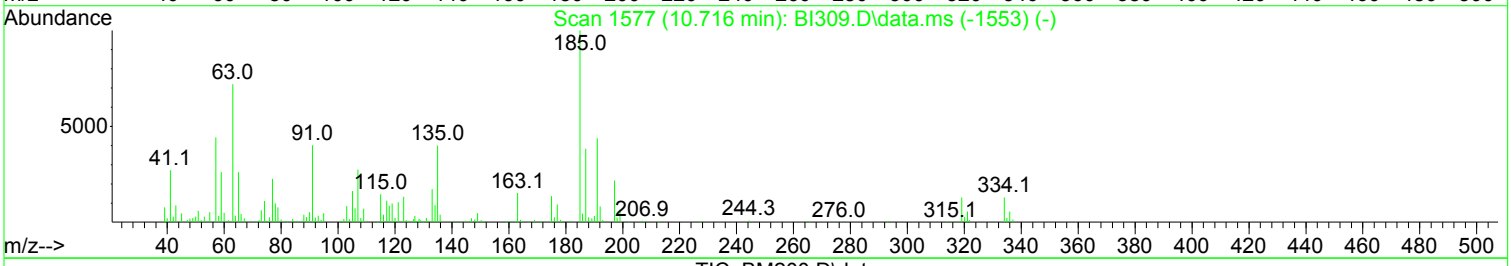
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM200.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 27.30 ppm

response 35300

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	44.80
319.10	22.50	20.59
0.00	0.00	0.00

Manual Integration:

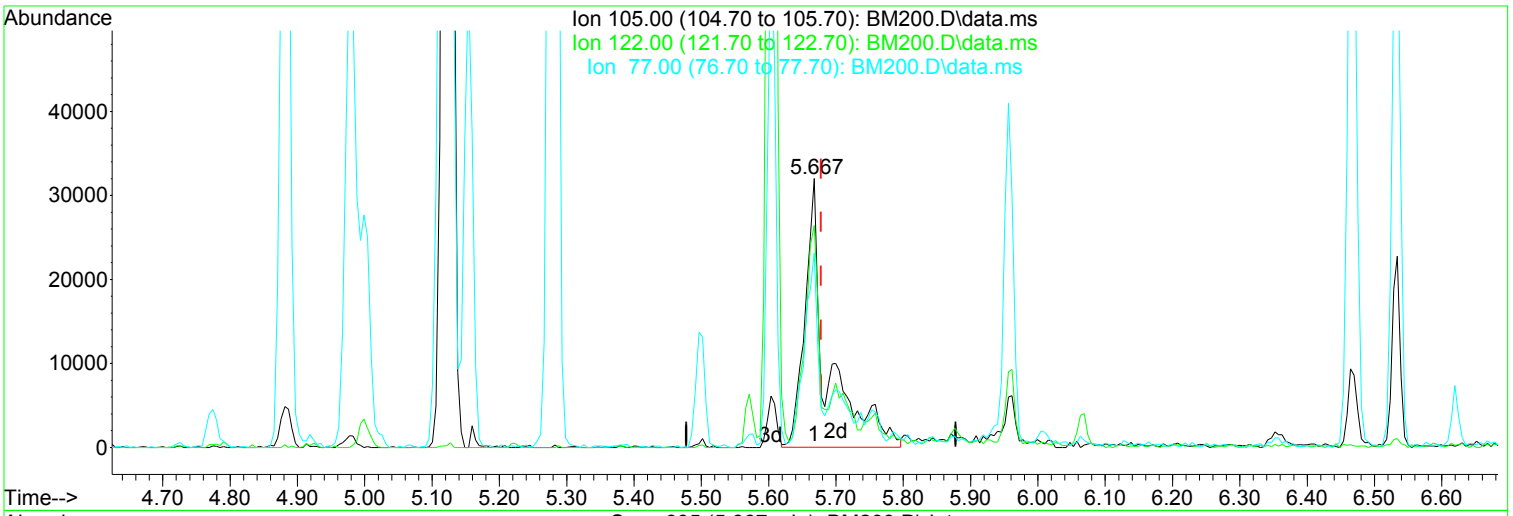
Before

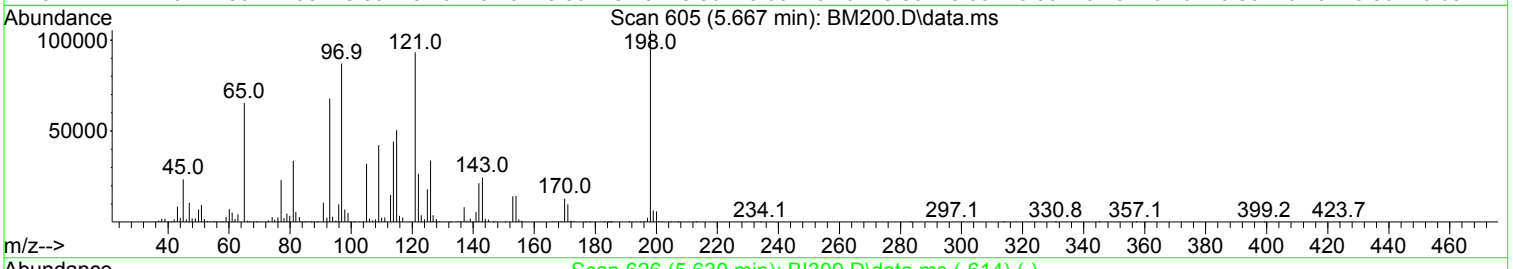
10/26/17

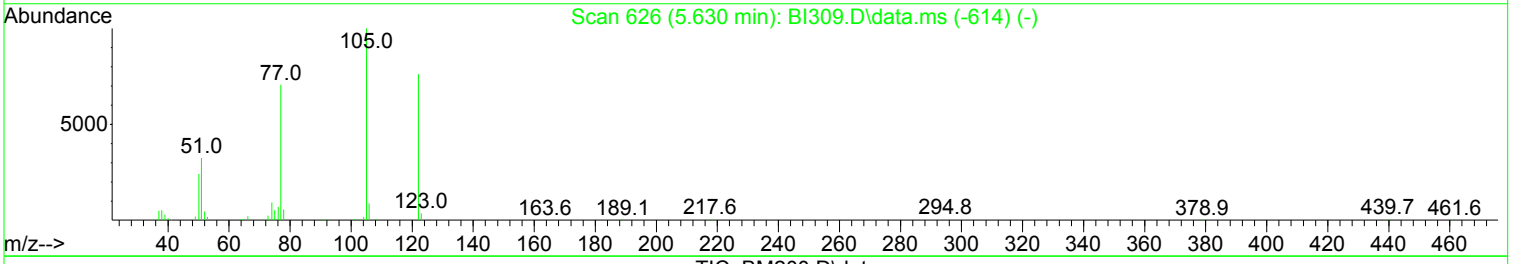
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM200.D\data.ms

(39) Benzoic Acid (TM)

5.667min (-0.011) 40.43 ppm m

response 74000

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	75.90	82.56
77.00	78.10	72.31
0.00	0.00	0.00

Manual Integration:

After

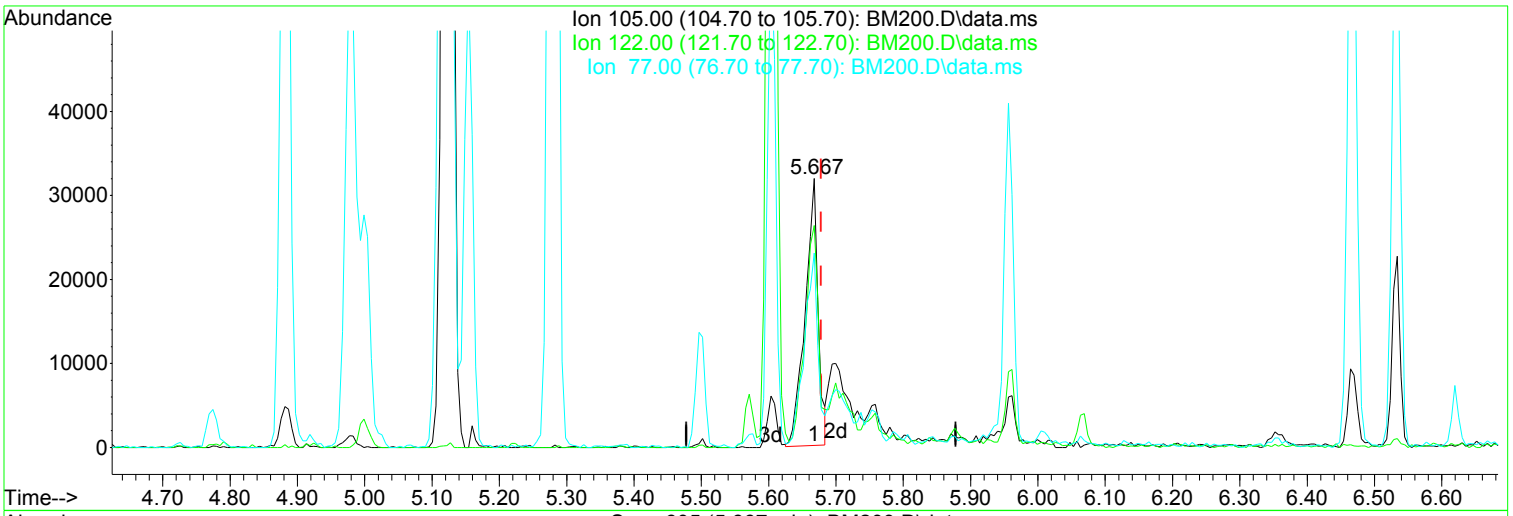
Poor integration.

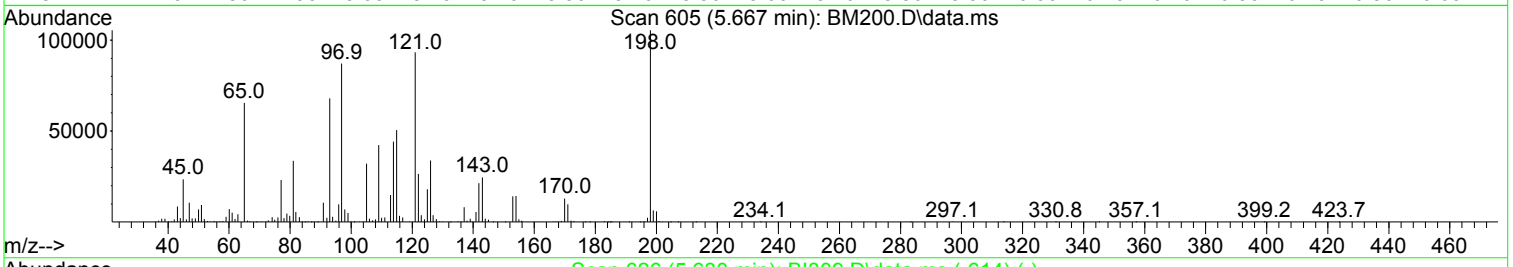
10/26/17

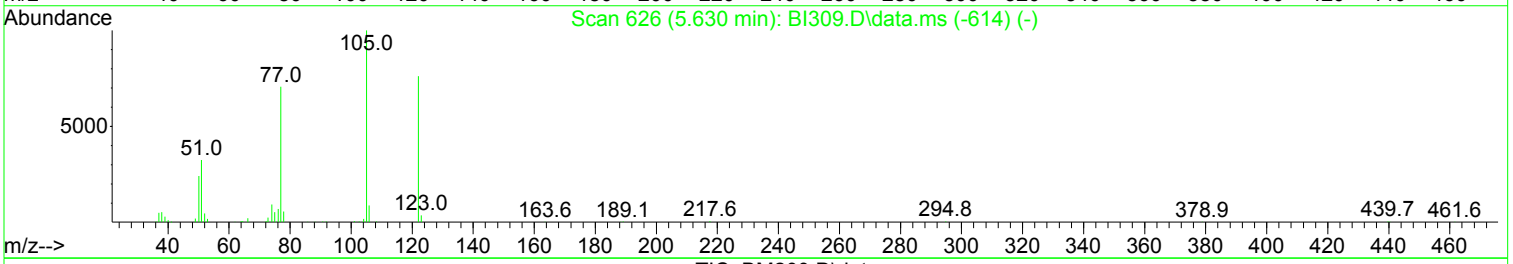
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM200.D\data.ms

(39) Benzoic Acid (TM)

5.667min (-0.011) 23.29 ppm

response 42631

Ion	Exp%	Act%
105.00	100.00	100.00
122.00	75.90	82.56
77.00	78.10	72.31
0.00	0.00	0.00

Manual Integration:

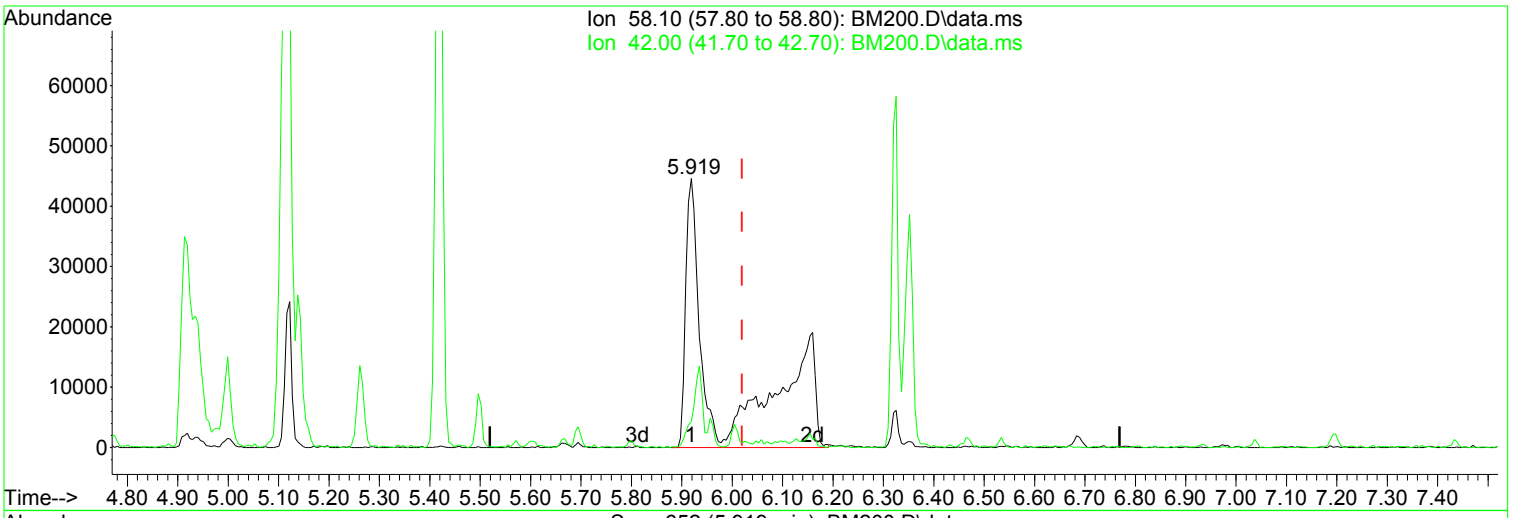
Before

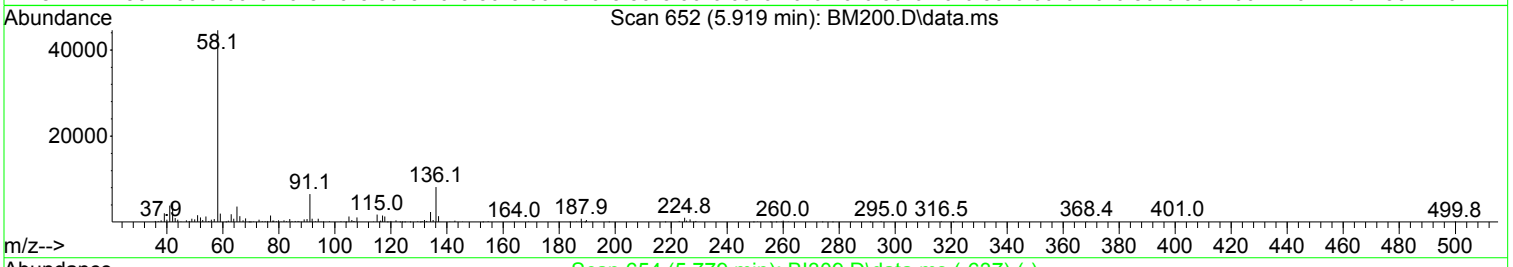
10/26/17

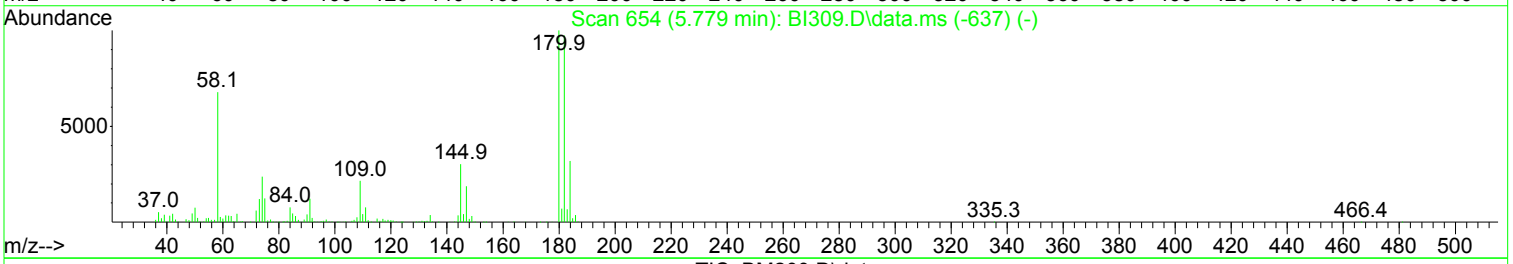
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM200.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

5.919min (-0.101) 24.34 ppm m

response 183679

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	9.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

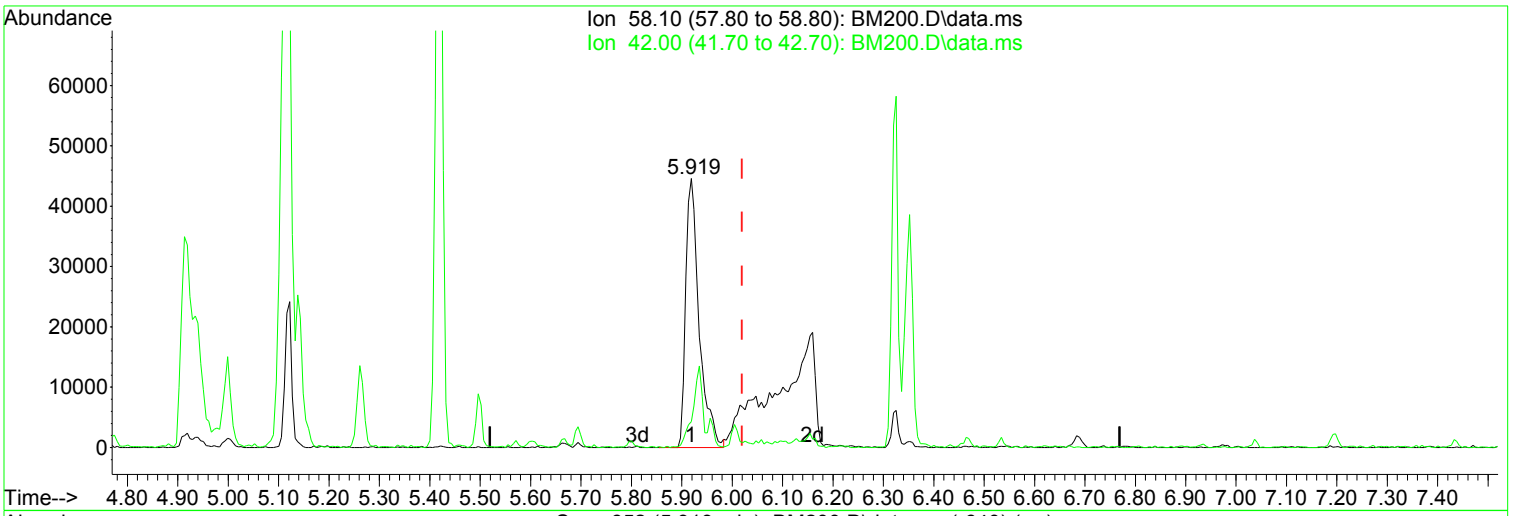
Poor integration.

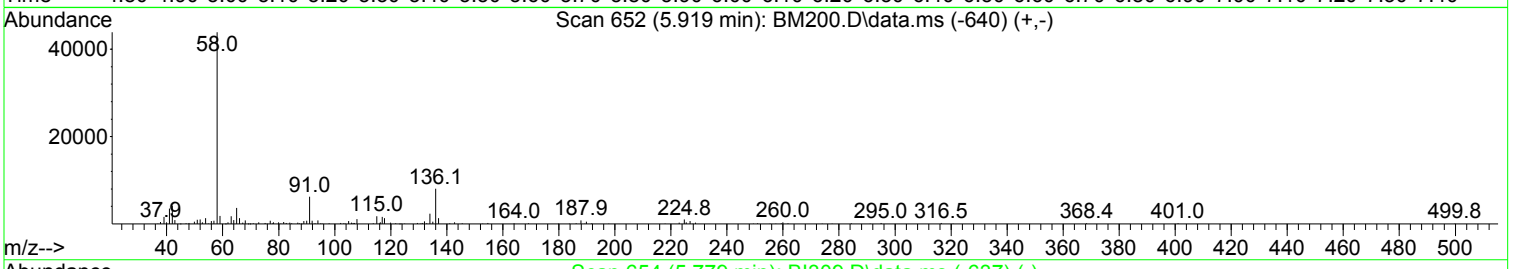
10/26/17

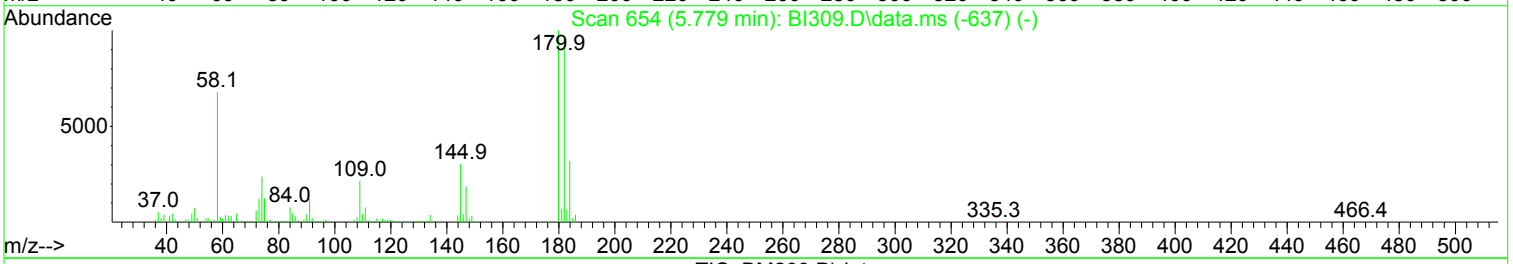
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM200.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

5.919min (-0.101) 10.97 ppm

response 82751

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	9.47
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	100948	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	389023	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	195042	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	342456	40.00	ppm	0.00
117) d12-Chrysene	12.380	240	343025	40.00	ppm	0.00
135) d12-Perylene	15.306	264	313294	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	163909	49.22	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 24.61%			
12) SURR2,PHENOL-D6	4.432	99	202925	51.09	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 25.55%			
34) SURR4,NITROBENZENE-D5	5.261	82	174089	49.96	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 49.96%			
63) SURR5,2-FLUOROBIPHENYL	6.978	172	363205	49.65	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 49.65%			
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	60166	46.93	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 23.47%#			
124) SURR6,TERPHENYL-D14	10.802	244	381561	49.74	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 49.74%			
Target Compounds						Qvalue
2) Pyridine	2.769	79	168220	51.692	ppm	100
3) N-Nitrosodimethylamine	2.731	74	87800	51.026	ppm	94
4) 2-Picoline	3.298	93	169041	49.142	ppm	98
5) N-Nitrosomethylamine	3.362	42	87993	47.501	ppm	99
6) Methyl Methansulfonate	3.582	80	85542	49.477	ppm	98
8) N-Nitrosodiethylamine	3.886	102	74566	49.503	ppm	83
9) Ethyl Mathanesulfonate	4.116	79	115163	47.899	ppm	95
10) Benzaldehyde	4.405	106	108492	54.634	ppm	95
11) Aniline	4.491	93	276101	52.735	ppm	97
13) Phenol	4.448	94	208556	50.345	ppm	97
14) bis(2-Clethyl)Ether	4.534	93	170758	52.223	ppm	98
15) Pentachloroethane	4.534	117	63836	51.656	ppm	100
16) 2-Chlorophenol	4.592	128	172729	50.398	ppm	98
17) 1,3-Diclbenzene	4.726	146	186875	50.110	ppm	94
18) 1,4-Dichlorobenzene	4.790	146	185876	49.384	ppm	100
19) 1,2-Diclbenzene	4.919	146	180541	50.543	ppm	97
20) Benzyl Alcohol	4.881	79	141832	50.276	ppm	98
21) 1-Methyl-2-pyrrolidinone	4.913	99	109869	52.660	ppm	98
22) 2,2'-oxybis(1-Chloropr...	4.999	45	245185	51.732	ppm	98
23) 2-Methylphenol	4.978	108	143368	49.313	ppm	95
24) 3+4-Methylphenol	5.117	108	161140	50.389	ppm	96
25) Acetophenone	5.122	105	236025	51.393	ppm	98
26) N-Nitroso-Di-n-propyla...	5.122	70	128954	51.425	ppm	85
27) N-Nitrosopyrrolidine	5.106	100	86240	50.998	ppm	93
28) N-Nitrosomorpholine	5.138	56	103126	48.896	ppm	100
29) o-Toluidine	5.154	106	258790	51.337	ppm	98
30) Hexachloroethane	5.224	117	80620	51.400	ppm	94
31) o,o,o-Triethylphosphor...	5.667	198	76124	53.109	ppm	94
32) Alpha-terpinol	5.962	121	64438	50.406	ppm	97
35) Nitrobenzene	5.282	77	199991	51.488	ppm	100
36) N-Nitrosopiperidine	5.416	42	116982	50.881	ppm	95
37) Isophorone	5.496	82	356178	50.706	ppm	98
38) 2-Nitrophenol	5.571	139	88410	50.280	ppm	98

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.667	105	74000m	40.435	ppm		
40) 2,4-Dimethylphenol	5.603	107	168676	50.539	ppm		98
41) bis(-2-Chloroethoxy)Me...	5.694	93	214688	51.113	ppm		99
42) 2,4-Dichlorophenol	5.801	162	136036	49.724	ppm		96
43) a,a-Dimethylphenethyla...	5.919	58	183679m	24.340	ppm		
44) 1,2,4-Trichlorobenzene	5.876	180	155901	50.186	ppm		98
45) Naphthalene	5.956	128	500888	50.607	ppm		99
46) 4-Chloroaniline	6.004	127	209708	50.539	ppm		98
47) 2,6-Dichlorophenol	6.010	162	138100	50.171	ppm		92
48) Hexachlorobutadiene	6.069	225	91594	51.760	ppm		95
49) Hexachloropropene	6.037	213	107961	51.283	ppm		100
50) 4-Chloro-3-methylphenol	6.464	107	137557	51.092	ppm		98
51) N-N-di-n-butylamine	6.325	84	118378	48.623	ppm		94
52) Caprolactam	6.352	113	46501	50.389	ppm		95
53) p-Phenylenediamine	6.352	80	81753	51.013	ppm		98
54) Safrole	6.534	162	130243	51.109	ppm		96
55) 2-Methylnaphthalene	6.620	142	332173	50.474	ppm		95
56) 1-Methylnaphthalene	6.716	142	303318	50.802	ppm		98
58) Hexachlorocyclopentadiene	6.769	237	93540	48.009	ppm		99
59) 1,2,4,5-Tetrachloroben...	6.780	216	153634	48.641	ppm		97
60) 1,2,3,4-Tetrachloroben...	7.058	216	141696	49.936	ppm		98
61) 2,4,6-Trichlorophenol	6.892	196	100279	49.546	ppm		99
62) 2,4,5-Trichlorophenol	6.930	196	93118	46.165	ppm		98
64) Isosafrole	7.037	104	61636	48.836	ppm		91
65) 1,1'-Biphenyl	7.074	154	398707	49.662	ppm		98
66) 2-Chloronaphthalene	7.096	162	309081	49.311	ppm		99
67) 2-Nitroaniline	7.197	65	85032	49.337	ppm		92
68) 1,4-Naphthoquinone	7.272	158	33962	50.785	ppm		97
69) m-Dinitrobenzene	7.406	168	45349	46.434	ppm		90
70) Acenaphthylene	7.502	152	497255	50.434	ppm		100
71) Dimethyl phthalate	7.374	163	329315	48.533	ppm		98
72) 2,6-Dinitrotoluene	7.433	165	82678	49.299	ppm		93
73) Acenaphthene	7.673	153	321330	49.182	ppm		99
74) 3-Nitroaniline	7.598	138	81906	49.055	ppm		88
75) 2,4-Dinitrophenol	7.705	184	31593	44.632	ppm		80
76) Dibenzofuran	7.844	168	436544	50.003	ppm		98
77) 2,4-Dinitrotoluene	7.828	165	105063	49.082	ppm		97
78) 4-Nitrophenol	7.769	65	68500	47.589	ppm		95
79) Pentachlorobenzene	7.802	250	136964	49.205	ppm		94
80) 1-Napthylamine	7.925	143	243890	48.126	ppm		93
81) 2-Napthylamine	7.999	143	263503	48.548	ppm		95
82) 2,3,4,6-Tetrachlorophenol	7.962	232	72804	46.750	ppm		97
83) Fluorene	8.181	166	357387	50.186	ppm		100
84) 4-Chlorophenyl-phenyle...	8.181	204	182892	48.982	ppm		93
85) Diethylphthalate	8.069	149	341469	47.018	ppm		99
86) 4-Nitroaniline	8.203	138	97681	52.260	ppm		98
87) 5-Nitro-o-toluidine	8.197	152	96165	49.499	ppm		93
89) Sulfotepp	8.454	322	54743	47.381	ppm		83
90) Octachlorocyclopentene	8.433	307	61921	50.454	ppm		97
92) Thionazin	8.149	107	50449	48.015	ppm		99
93) 4,6-Dinitro-2-methylph...	8.229	198	54024	49.695	ppm		97
94) Diphenylamine	8.299	169	496981	98.384	ppm		99
95) 1,2 Diphenylhydrazine	8.336	77	371441	53.076	ppm		96
96) N-Nitrosodiphenylamine	8.299	169	496981	98.381	ppm		99
97) 1,3,5-Trinirobenzene	8.566	213	25760	46.568	ppm	#	1
98) Diallate	8.582	86	113374	48.629	ppm		93

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

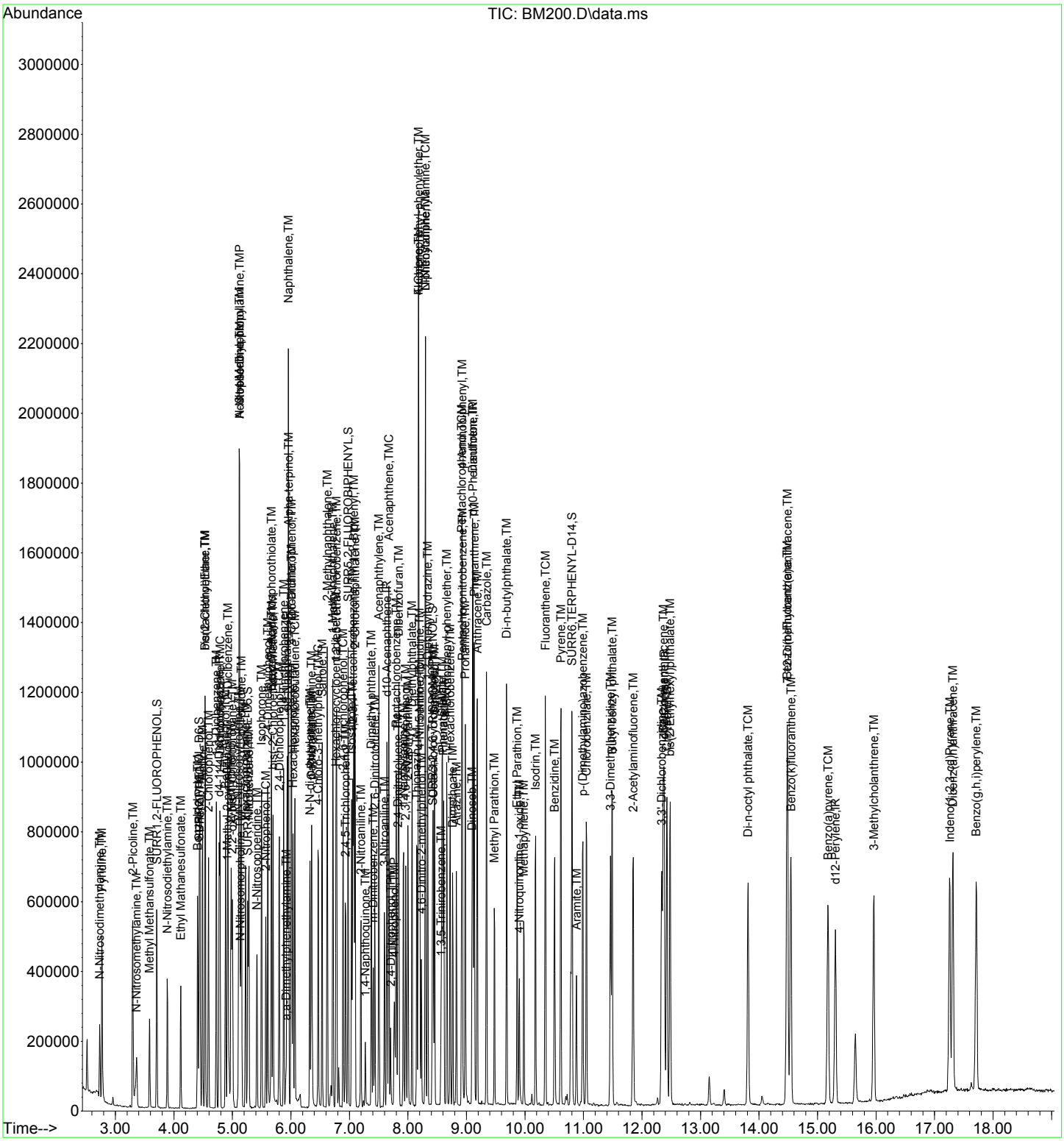
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99) Phorate	8.593	121	59640	50.193	ppm		94
100) Phenacetin	8.609	108	178992	53.669	ppm		99
101) 4-Bromophenyl-phenylether	8.663	248	102968	47.945	ppm		92
102) Hexachlorobenzene	8.722	284	112064	47.989	ppm		97
103) Dimethoate	8.764	87	114333	55.681	ppm		98
104) Atrazine	8.829	215	31949	52.404	ppm	#	92
105) Pentachlorophenol	8.919	266	58167	47.453	ppm		96
106) 4-Aminobiphenyl	8.925	169	312446	55.462	ppm		98
107) Pentachloronitrobenzene	8.930	237	44335	53.266	ppm		95
108) Pronamide	8.978	173	155217	53.787	ppm		98
109) Dinoseb	9.096	211	69400	47.961	ppm		97
110) Disulfoton	9.107	88	132667	49.180	ppm		95
111) Phenanthrene	9.133	178	460255	49.936	ppm		98
112) Anthracene	9.187	178	461420	50.697	ppm		100
113) Carbazole	9.342	167	464169	50.915	ppm		98
114) Di-n-butylphthalate	9.684	149	596112	50.790	ppm		99
115) 4-Nitroquinonline-1-oxide	9.904	190	34141	47.499	ppm		91
116) Fluoranthene	10.348	202	504337	50.088	ppm		98
118) Methyl Parathion	9.476	109	87288	54.054	ppm		94
119) Ethyl Parathion	9.866	97	63517	47.711	ppm		95
120) Methapyrilene	9.978	58	138905	50.364	ppm		94
121) Isodrin	10.182	193	51470	50.933	ppm		96
122) Benzidine	10.508	184	308143	48.600	ppm		98
123) Pyrene	10.615	202	515263	49.620	ppm		99
125) Aramite	10.882	185	65897m	50.963	ppm		
126) p-(Dimethylamino)azobe...	10.989	120	152515	53.168	ppm		97
127) Chlorobenzilate	11.048	139	173407	51.274	ppm		88
128) Butyl benzyl phthalate	11.492	149	264760	51.501	ppm		96
129) 3,3-Dimethylbenzidine	11.460	212	298501	49.514	ppm		99
130) 2-Acetylaminofluorene	11.851	181	209720	50.102	ppm		97
131) 3,3'-Dichlorobenzidine	12.337	252	202164	47.135	ppm		99
132) Benzo(a)anthracene	12.364	228	473743	47.121	ppm		98
133) Chrysene	12.428	228	457415	47.303	ppm		99
134) bis(2-Ethylhexyl)phtha...	12.482	149	360178	47.799	ppm		97
136) Di-n-octyl phthalate	13.813	149	539876	50.053	ppm		98
137) 7,12-Dimethylbenz(a)an...	14.487	256	208300	51.249	ppm		98
138) Benzo(b)Fluoranthene	14.482	252	484783	51.465	ppm		98
139) Benzo(k)fluoranthene	14.546	252	468548	51.781	ppm		97
140) Benzo(a)pyrene	15.177	252	423393	51.364	ppm		98
141) 3-Methylcholanthrene	15.964	268	240422	50.732	ppm		99
142) Indeno(1,2,3-cd)Pyrene	17.263	276	431970	52.503	ppm		93
143) Dibenz(a,h)anthracene	17.317	278	454953	52.383	ppm		97
144) Benzo(g,h,i)perylene	17.713	276	434867	54.218	ppm		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM200.D
Acq On : 26 Oct 2017 11:47 am
Operator : J.Misiurewicz
Sample : 50 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 7 Sample Multiplier: 1

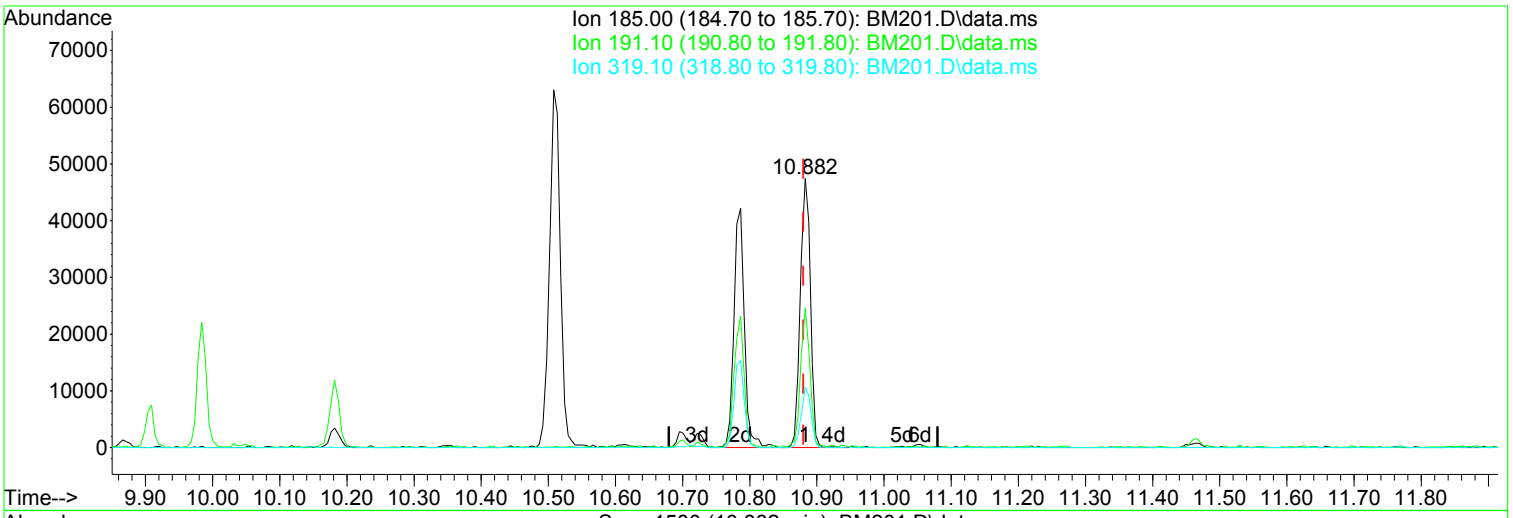
Quant Time: Oct 26 14:09:39 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

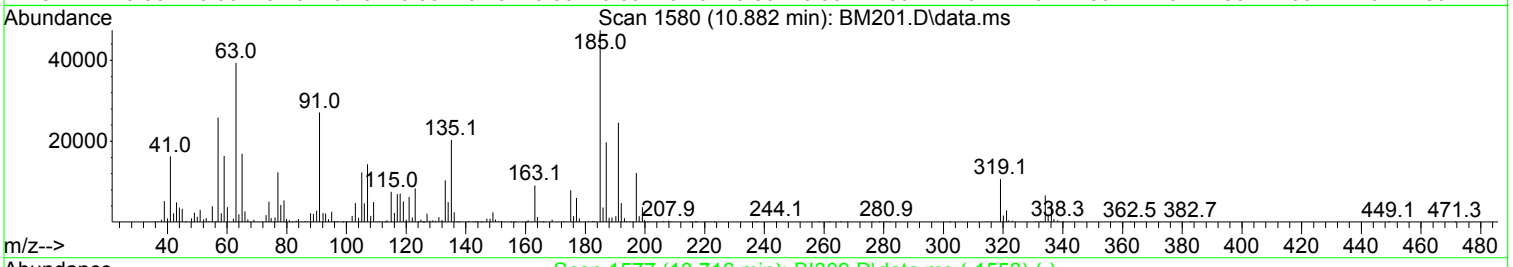


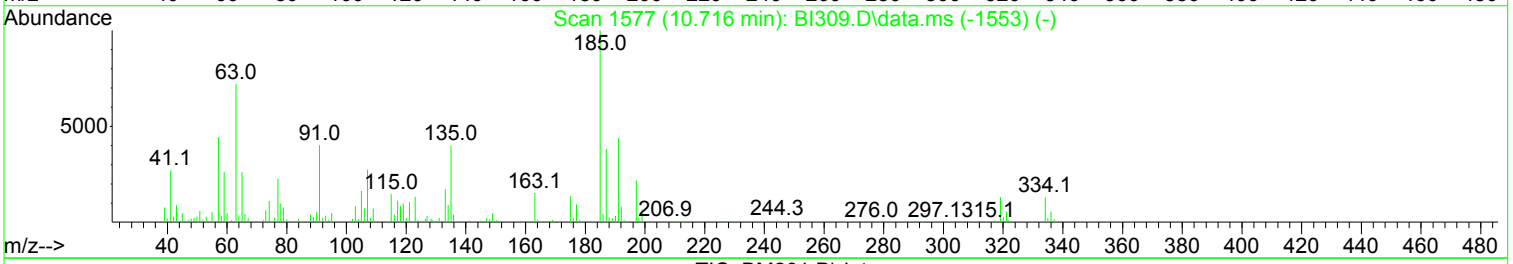
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM201.D
Acq On : 26 Oct 2017 12:16 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 14:09:46 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM201.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 83.63 ppm m

response 95223

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	51.83
319.10	22.50	22.53
0.00	0.00	0.00

Manual Integration:

After

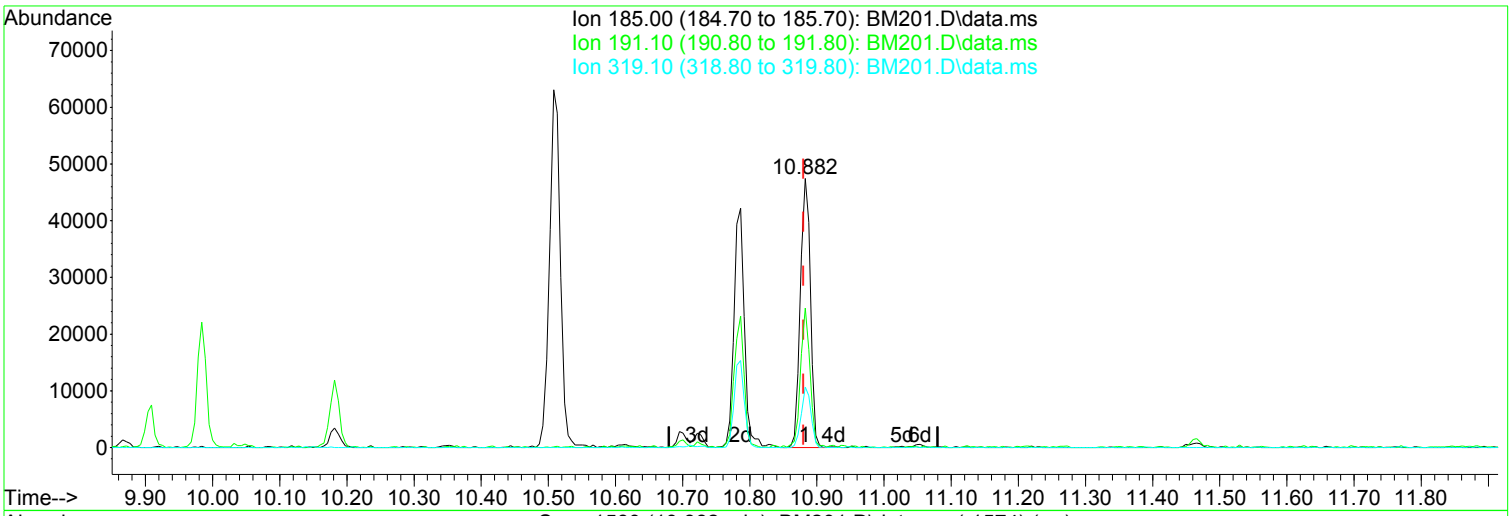
Split Peak.

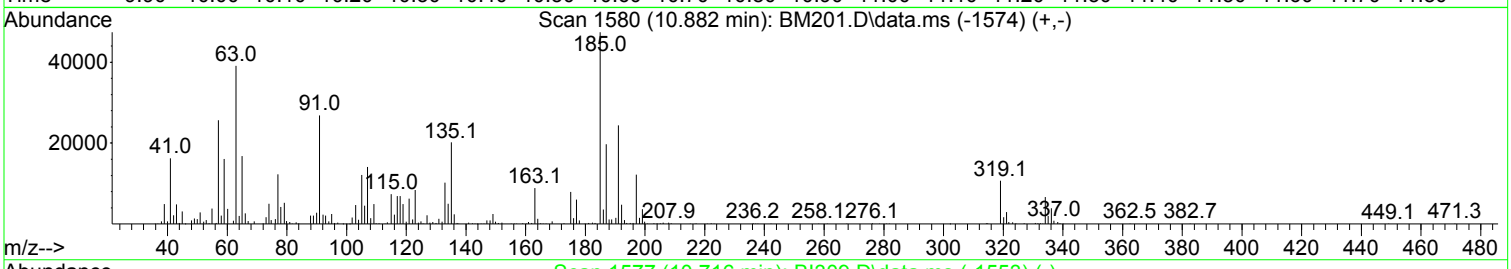
10/26/17

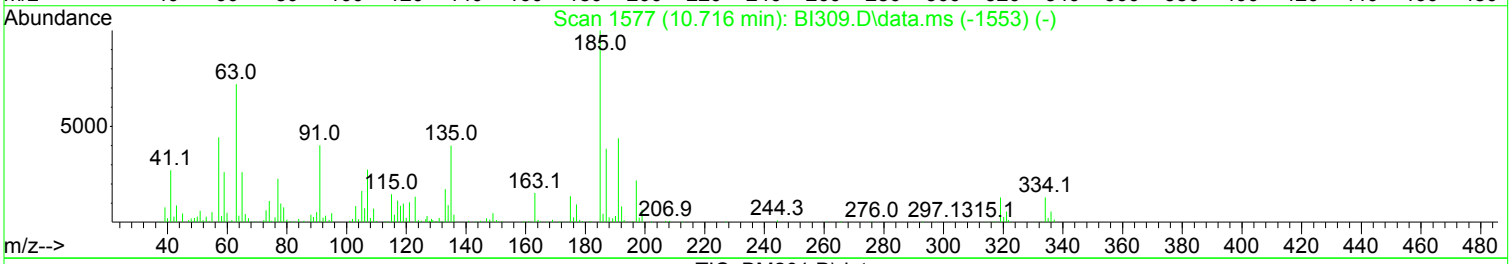
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM201.D
Acq On : 26 Oct 2017 12:16 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 14:09:46 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM201.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 43.36 ppm

response 49375

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	51.44
319.10	22.50	22.55
0.00	0.00	0.00

Manual Integration:

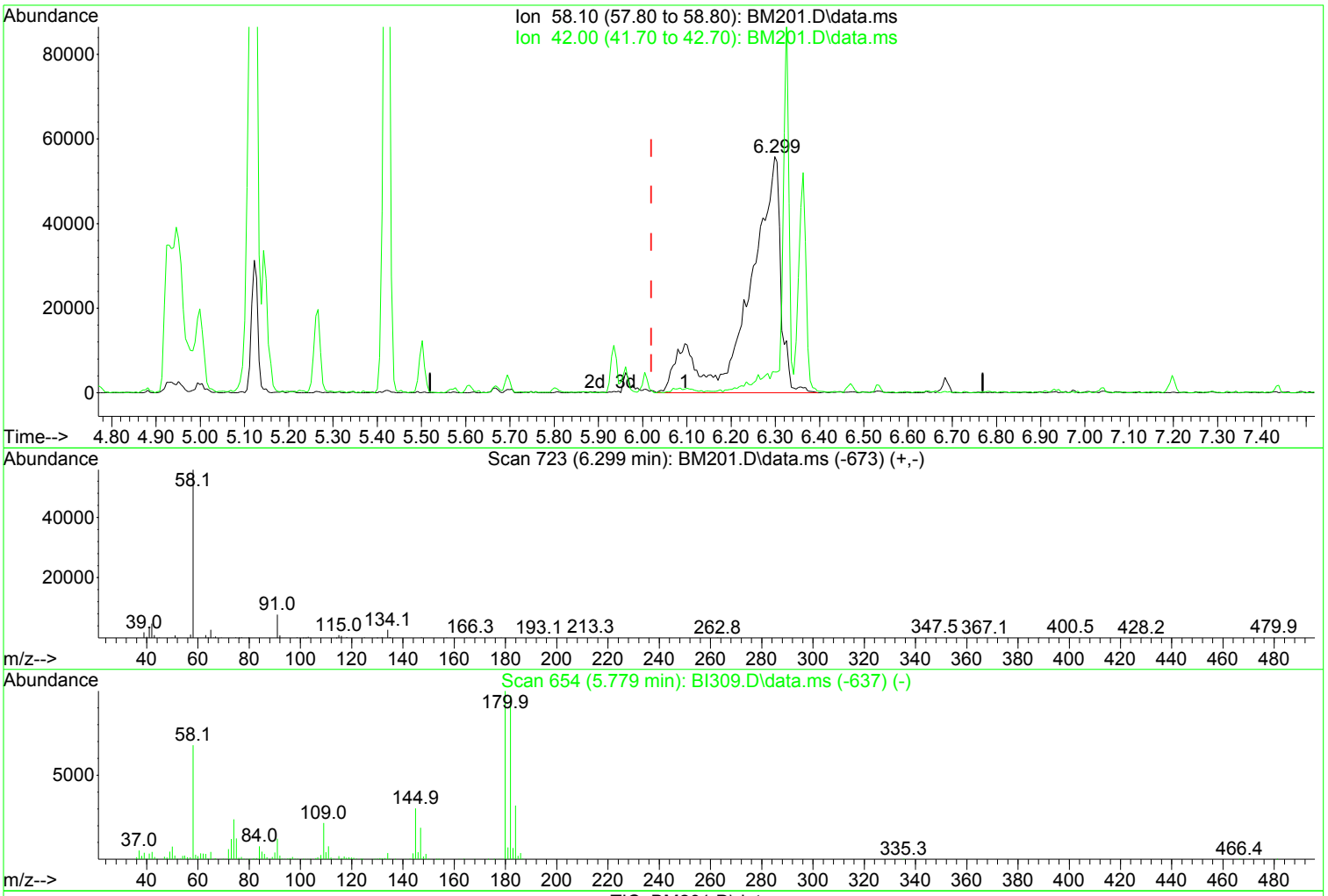
Before

10/26/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM201.D
Acq On : 26 Oct 2017 12:16 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 14:09:46 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration



TIC: BM201.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.299min (+ 0.279) 40.75 ppm m

response 281305

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	8.86
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

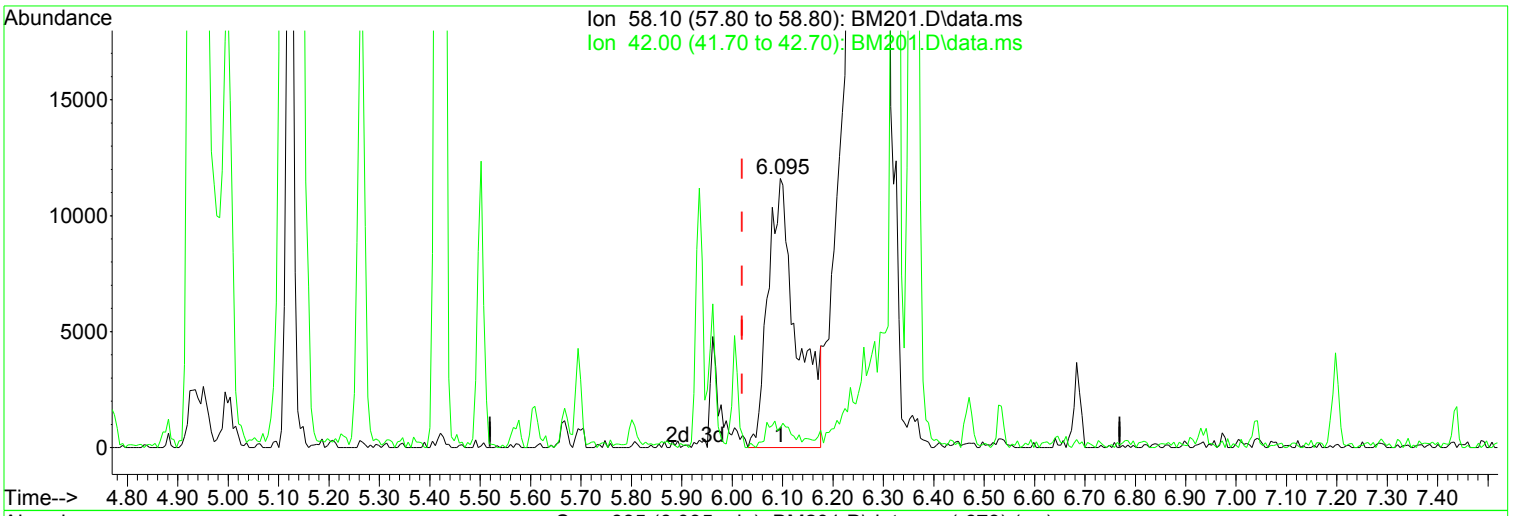
Poor integration.

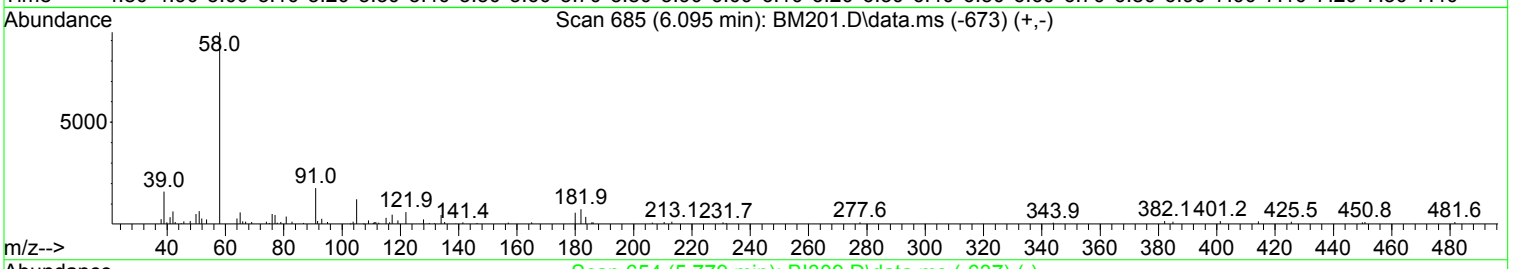
10/26/17

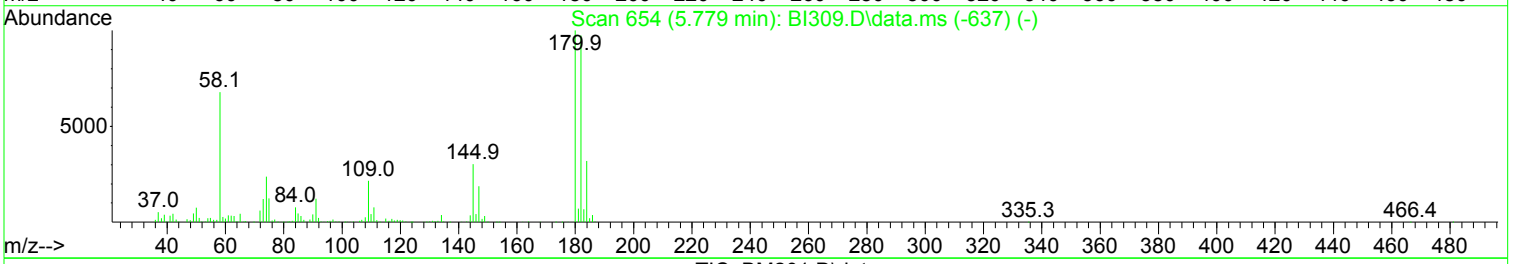
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM201.D
Acq On : 26 Oct 2017 12:16 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 14:09:46 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM201.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.095min (+ 0.076) 6.66 ppm

response 45989

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	4.96
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM201.D
Acq On : 26 Oct 2017 12:16 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 14:09:46 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	89827	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	355823	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	162488	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	328074	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	302066	40.00	ppm	0.00
135) d12-Perylene	15.311	264	306382	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	244568	82.54	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 41.27%			
12) SURR2,PHENOL-D6	4.437	99	289240	81.84	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 40.92%			
34) SURR4,NITROBENZENE-D5	5.266	82	252125	79.10	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 79.10%			
63) SURR5,2-FLUOROBIPHENYL	6.978	172	518145	85.02	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 85.02%			
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	90791	85.00	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 42.50%			
124) SURR6,TERPHENYL-D14	10.808	244	582328	86.21	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 86.21%			
Target Compounds						Qvalue
2) Pyridine	2.769	79	245084	84.635	ppm	100
3) N-Nitrosodimethylamine	2.731	74	130693	85.357	ppm	100
4) 2-Picoline	3.293	93	251383	82.127	ppm	100
5) N-Nitrosomethylamine	3.362	42	132328	80.279	ppm	100
6) Methyl Methansulfonate	3.587	80	128908	83.791	ppm	100
8) N-Nitrosodiethylamine	3.892	102	111293	83.033	ppm	100
9) Ethyl Mathanesulfonate	4.116	79	180537	84.385	ppm	100
10) Benzaldehyde	4.405	106	125408	70.971	ppm	100
11) Aniline	4.491	93	388253	83.336	ppm	100
13) Phenol	4.448	94	300384	81.489	ppm	100
14) bis(2-Clethyl)Ether	4.534	93	237187	81.519	ppm	100
15) Pentachloroethane	4.534	117	90161	81.990	ppm	100
16) 2-Chlorophenol	4.592	128	248262	81.405	ppm	100
17) 1,3-Diclbenzene	4.726	146	275932	83.151	ppm	100
18) 1,4-Dichlorobenzene	4.790	146	279975	83.593	ppm	100
19) 1,2-Diclbenzene	4.924	146	259669	81.695	ppm	100
20) Benzyl Alcohol	4.881	79	209254	83.358	ppm	100
21) 1-Methyl-2-pyrrolidinone	4.945	99	159485	85.905	ppm	99
22) 2,2'-oxybis(1-Chloropr...	4.999	45	333156	78.996	ppm	100
23) 2-Methylphenol	4.983	108	210025	81.184	ppm	100
24) 3+4-Methylphenol	5.117	108	229376	80.606	ppm	100
25) Acetophenone	5.127	105	323110	79.066	ppm	100
26) N-Nitroso-Di-n-propyla...	5.122	70	176030	78.888	ppm	100
27) N-Nitrosopyrrolidine	5.111	100	117267	77.931	ppm	100
28) N-Nitrosomorpholine	5.143	56	145058	77.292	ppm	100
29) o-Toluidine	5.154	106	363732	81.088	ppm	100
30) Hexachloroethane	5.224	117	110649	79.279	ppm	100
31) o,o,o-Triethylphosphor...	5.668	198	107866	84.570	ppm	100
32) Alpha-terpinol	5.962	121	104092	91.506	ppm	100
35) Nitrobenzene	5.282	77	278214	78.309	ppm	100
36) N-Nitrosopiperidine	5.421	42	168205	79.986	ppm	100
37) Isophorone	5.502	82	503375	78.347	ppm	100
38) 2-Nitrophenol	5.571	139	130715	81.276	ppm	100

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM201.D
Acq On : 26 Oct 2017 12:16 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 14:09:46 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzoic Acid	5.684	105	126651	75.661	ppm	100
40) 2,4-Dimethylphenol	5.609	107	242327	79.380	ppm	100
41) bis(-2-Chloroethoxy)Me...	5.694	93	292061	76.022	ppm	100
42) 2,4-Dichlorophenol	5.801	162	214682	85.792	ppm	100
43) a,a-Dimethylphenethyla...	6.299	58	281305m	40.754	ppm	
44) 1,2,4-Trichlorobenzene	5.876	180	240309	84.575	ppm	100
45) Naphthalene	5.956	128	754577	83.353	ppm	100
46) 4-Chloroaniline	6.004	127	317216	83.582	ppm	100
47) 2,6-Dichlorophenol	6.015	162	211113	83.852	ppm	100
48) Hexachlorobutadiene	6.069	225	136309	84.216	ppm	100
49) Hexachloropropene	6.037	213	165918	86.168	ppm	100
50) 4-Chloro-3-methylphenol	6.470	107	212190	86.166	ppm	100
51) N-N-di-n-butylamine	6.325	84	171771	77.137	ppm	100
52) Caprolactam	6.363	113	70912	84.010	ppm	100
53) p-Phenylenediamine	6.357	80	106625	72.741	ppm	100
54) Safrole	6.534	162	199282	85.498	ppm	100
55) 2-Methylnaphthalene	6.625	142	506677	84.173	ppm	100
56) 1-Methylnaphthalene	6.721	142	456704	83.629	ppm	100
58) Hexachlorocyclopentadiene	6.769	237	146992	90.559	ppm	100
59) 1,2,4,5-Tetrachloroben...	6.780	216	228817	86.959	ppm	100
60) 1,2,3,4-Tetrachloroben...	7.064	216	202193	85.532	ppm	100
61) 2,4,6-Trichlorophenol	6.892	196	150712	89.383	ppm	100
62) 2,4,5-Trichlorophenol	6.935	196	137924	82.078	ppm	100
64) Isosafrole	7.037	104	89095	84.736	ppm	100
65) 1,1'-Biphenyl	7.074	154	574040	85.826	ppm	100
66) 2-Chloronaphthalene	7.096	162	434323	83.175	ppm	100
67) 2-Nitroaniline	7.197	65	121126	84.359	ppm	100
68) 1,4-Naphthoquinone	7.272	158	44968	80.715	ppm	100
69) m-Dinitrobenzene	7.411	168	72035	88.536	ppm	100
70) Acenaphthylene	7.502	152	679371	82.710	ppm	100
71) Dimethyl phthalate	7.379	163	464532	82.177	ppm	100
72) 2,6-Dinitrotoluene	7.438	165	121415	86.901	ppm	100
73) Acenaphthene	7.673	153	483191	88.773	ppm	100
74) 3-Nitroaniline	7.604	138	124187	89.280	ppm	100
75) 2,4-Dinitrophenol	7.705	184	60758	86.793	ppm	100
76) Dibenzofuran	7.844	168	616207	84.724	ppm	98
77) 2,4-Dinitrotoluene	7.834	165	167581	87.916	ppm	100
78) 4-Nitrophenol	7.770	65	100819	84.075	ppm	100
79) Pentachlorobenzene	7.802	250	198066	85.412	ppm	100
80) 1-Napthylamine	7.925	143	350960	83.129	ppm	100
81) 2-Napthylamine	8.005	143	401748	88.848	ppm	100
82) 2,3,4,6-Tetrachlorophenol	7.967	232	110759	85.372	ppm	100
83) Fluorene	8.181	166	487310	82.141	ppm	100
84) 4-Chlorophenyl-phenyle...	8.181	204	251184	80.750	ppm	100
85) Diethylphthalate	8.074	149	502702	83.087	ppm	100
86) 4-Nitroaniline	8.208	138	142511	91.520	ppm	100
87) 5-Nitro-o-toluidine	8.203	152	146301	90.393	ppm	100
89) Sulfotepp	8.460	322	84087	87.360	ppm	100
90) Octachlorocyclopentene	8.433	307	92331	90.304	ppm	100
92) Thionazin	8.155	107	77467	76.962	ppm	100
93) 4,6-Dinitro-2-methylph...	8.235	198	84268	77.226	ppm	100
94) Diphenylamine	8.304	169	768669	158.839	ppm	100
95) 1,2 Diphenylhydrazine	8.336	77	553275	82.525	ppm	100
96) N-Nitrosodiphenylamine	8.304	169	768669	158.834	ppm	100
97) 1,3,5-Trinirobenzene	8.577	213	42308	79.836	ppm	100
98) Diallate	8.583	86	166912	74.732	ppm	100

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM201.D
Acq On : 26 Oct 2017 12:16 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 26 14:09:46 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

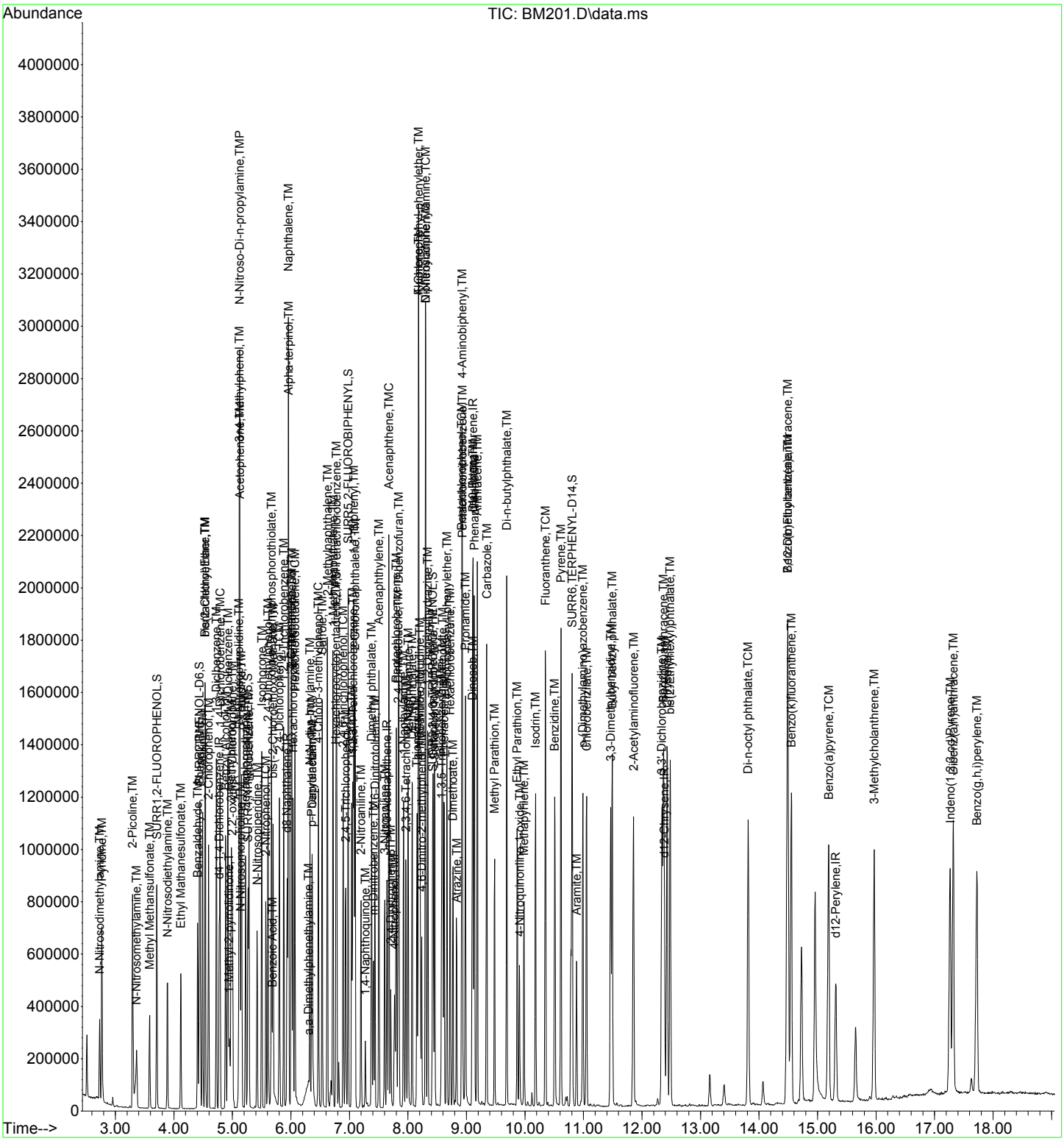
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.593	121	89717	78.816	ppm	100
100) Phenacetin	8.615	108	253630	79.382	ppm	100
101) 4-Bromophenyl-phenylether	8.668	248	149322	72.577	ppm	100
102) Hexachlorobenzene	8.722	284	167599	74.916	ppm	100
103) Dimethoate	8.770	87	167496	85.148	ppm	100
104) Atrazine	8.834	215	39569	67.748	ppm	100
105) Pentachlorophenol	8.919	266	102591	81.274	ppm	100
106) 4-Aminobiphenyl	8.925	169	440786	81.673	ppm	100
107) Pentachloronitrobenzene	8.930	237	65829	82.557	ppm	100
108) Pronamide	8.984	173	226253	81.841	ppm	100
109) Dinoseb	9.101	211	118377	85.395	ppm	100
110) Disulfoton	9.112	88	201792	78.085	ppm	100
111) Phenanthrene	9.133	178	715508	81.033	ppm	100
112) Anthracene	9.187	178	723570	82.985	ppm	100
113) Carbazole	9.347	167	715532	81.928	ppm	100
114) Di-n-butylphthalate	9.690	149	951588	84.632	ppm	100
115) 4-Nitroquinonline-1-oxide	9.909	190	57682	83.768	ppm	100
116) Fluoranthene	10.348	202	763953	79.198	ppm	100
118) Methyl Parathion	9.481	109	143838	101.152	ppm	100
119) Ethyl Parathion	9.866	97	101935	86.951	ppm	100
120) Methapyrilene	9.984	58	204402	84.160	ppm	100
121) Isodrin	10.182	193	77398	86.975	ppm	100
122) Benzidine	10.508	184	524870	94.007	ppm	100
123) Pyrene	10.615	202	790397	86.437	ppm	100
125) Aramite	10.882	185	95223m	83.629	ppm	
126) p-(Dimethylamino)azobe...	10.989	120	216660	85.772	ppm	100
127) Chlorobenzilate	11.054	139	256792	86.225	ppm	100
128) Butyl benzyl phthalate	11.492	149	391589	86.501	ppm	100
129) 3,3-Dimethylbenzidine	11.465	212	483015	90.984	ppm	100
130) 2-Acetylaminofluorene	11.856	181	338523	91.839	ppm	100
131) 3,3'-Dichlorobenzidine	12.337	252	329818	87.325	ppm	100
132) Benzo(a)anthracene	12.369	228	734371	82.948	ppm	100
133) Chrysene	12.434	228	716459	84.139	ppm	100
134) bis(2-Ethylhexyl)phtha...	12.482	149	553575	83.425	ppm	100
136) Di-n-octyl phthalate	13.813	149	941930	89.298	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.493	256	357852	90.030	ppm	100
138) Benzo(b)Fluoranthene	14.493	252	821389	89.167	ppm	100
139) Benzo(k)fluoranthene	14.552	252	797876	90.166	ppm	100
140) Benzo(a)pyrene	15.193	252	710252	88.108	ppm	100
141) 3-Methylcholanthrene	15.969	268	388198	83.762	ppm	100
142) Indeno(1,2,3-cd)Pyrene	17.269	276	646876	80.397	ppm	100
143) Dibenz(a,h)anthracene	17.322	278	705546	83.069	ppm	100
144) Benzo(g,h,i)perylene	17.723	276	650530	82.935	ppm	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM201.D
Acq On : 26 Oct 2017 12:16 pm
Operator : J.Misiurewicz
Sample : 80 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 8 Sample Multiplier: 1

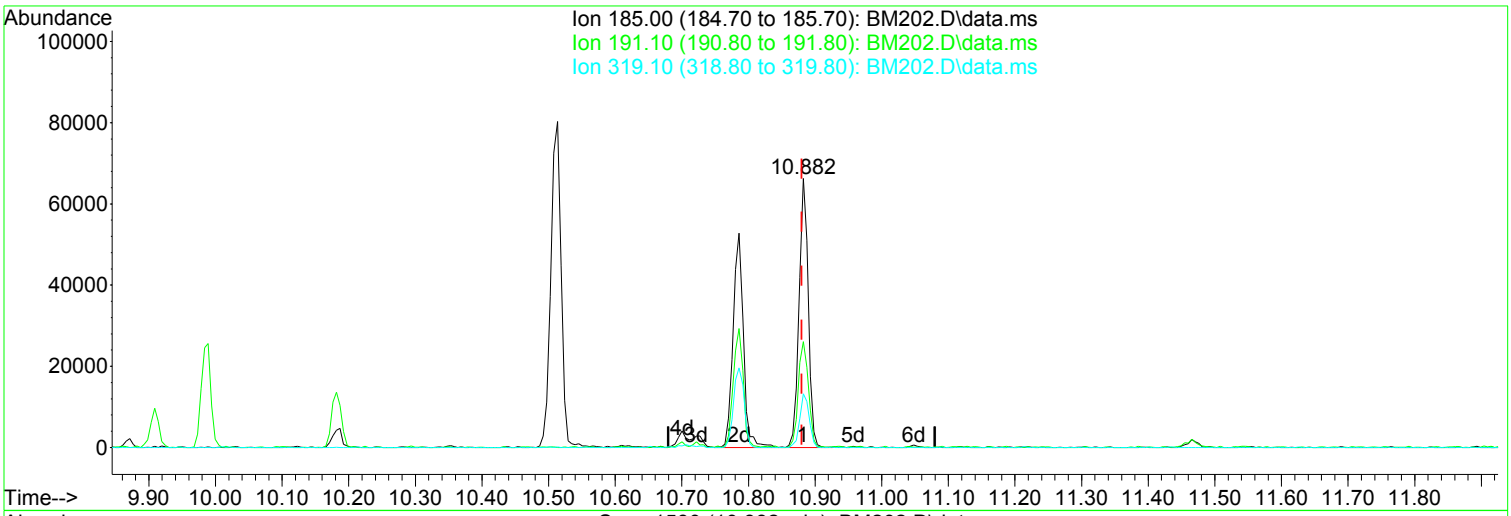
Quant Time: Oct 26 14:09:46 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

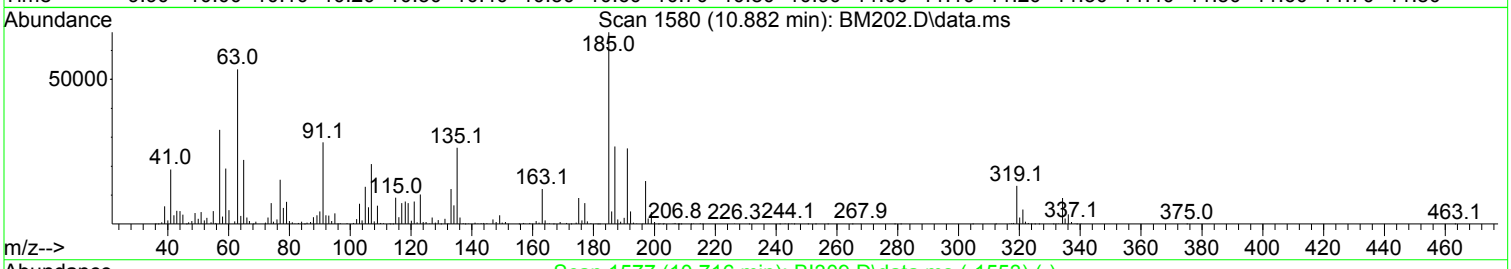


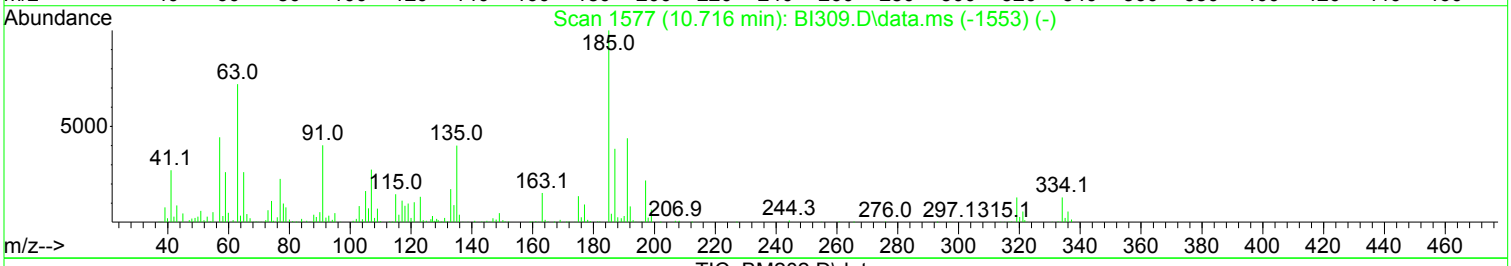
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM202.D
Acq On : 26 Oct 2017 12:44 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:09:54 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM202.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 99.25 ppm m

response 121016

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	39.40
319.10	22.50	19.97
0.00	0.00	0.00

Manual Integration:

After

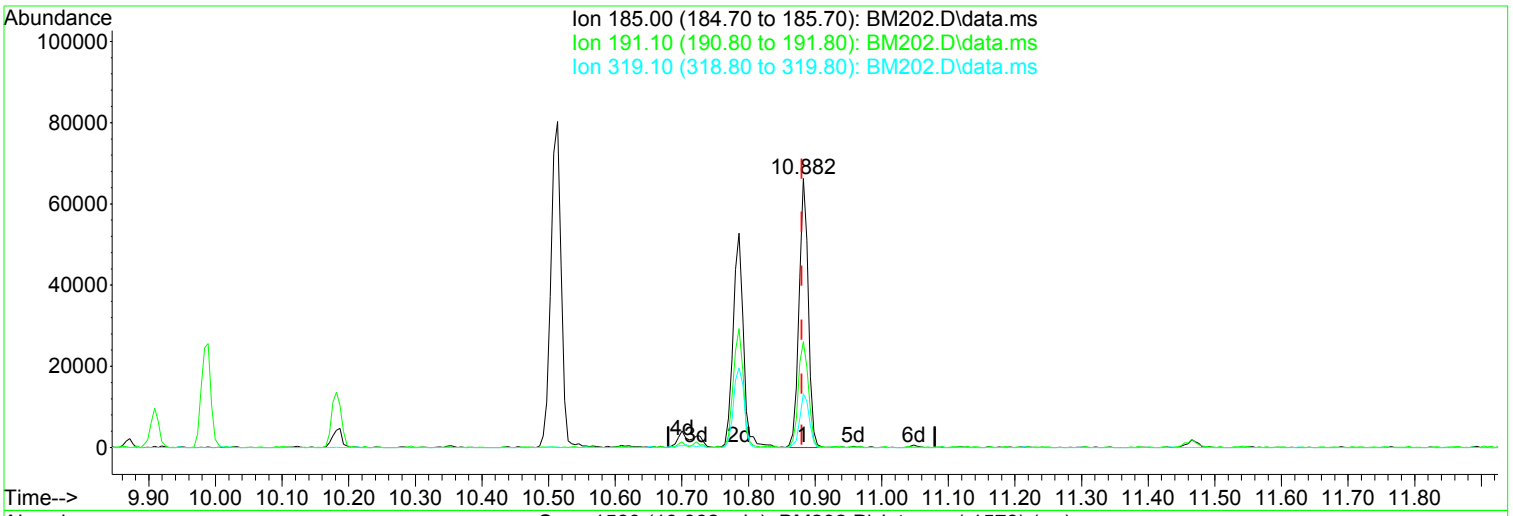
Split Peak.

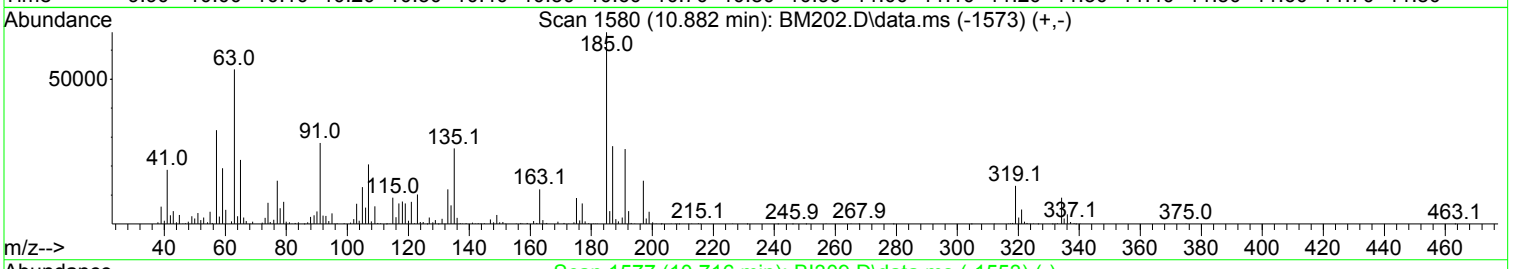
10/26/17

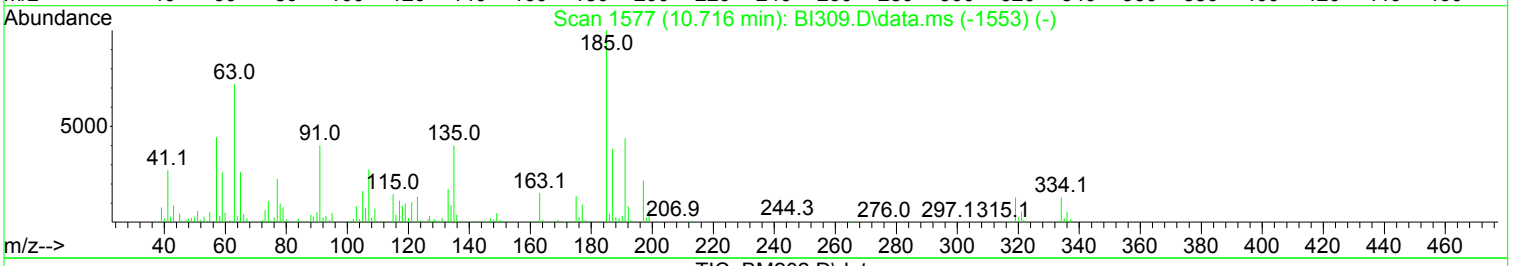
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM202.D
Acq On : 26 Oct 2017 12:44 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:09:54 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM202.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 52.68 ppm

response 64233

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	39.02
319.10	22.50	19.91
0.00	0.00	0.00

Manual Integration:

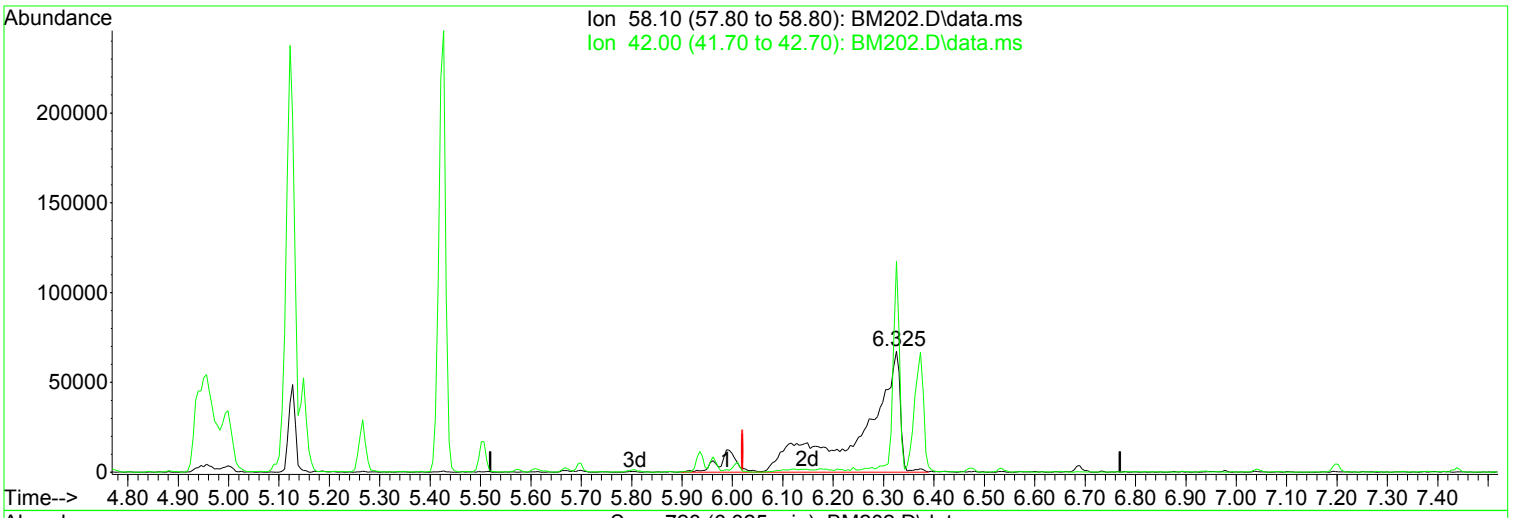
Before

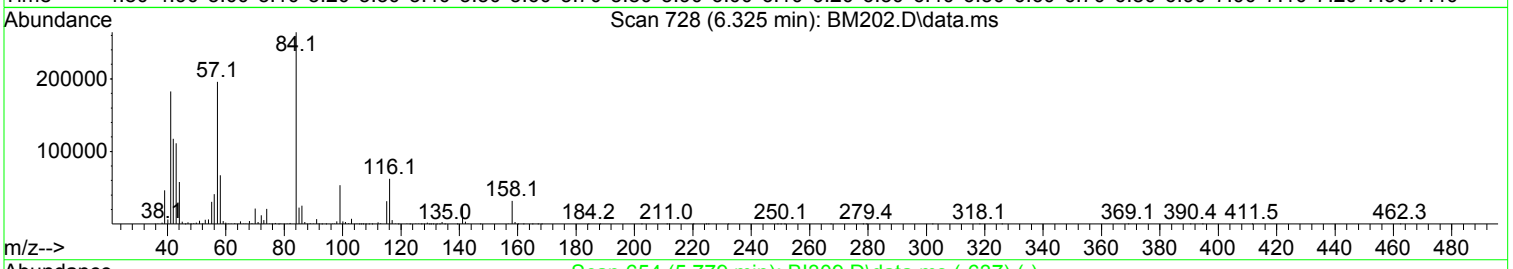
10/26/17

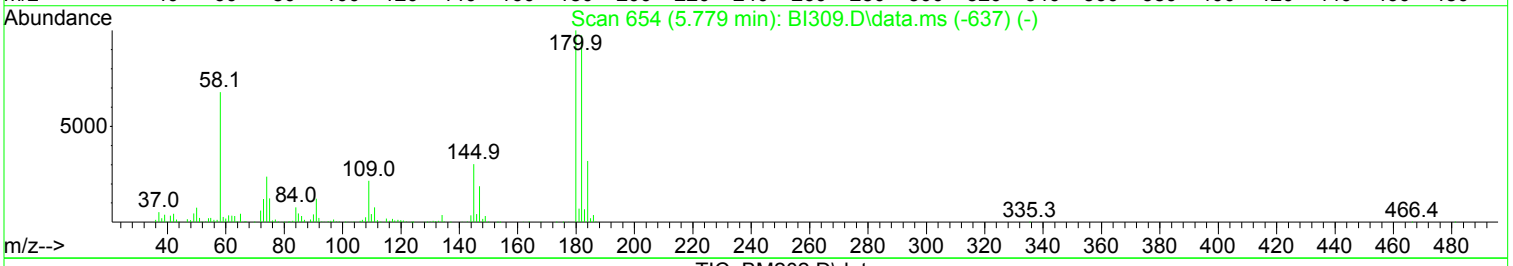
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM202.D
Acq On : 26 Oct 2017 12:44 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:09:54 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM202.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.325min (+ 0.306) 49.31 ppm m

response 373286

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	174.38#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

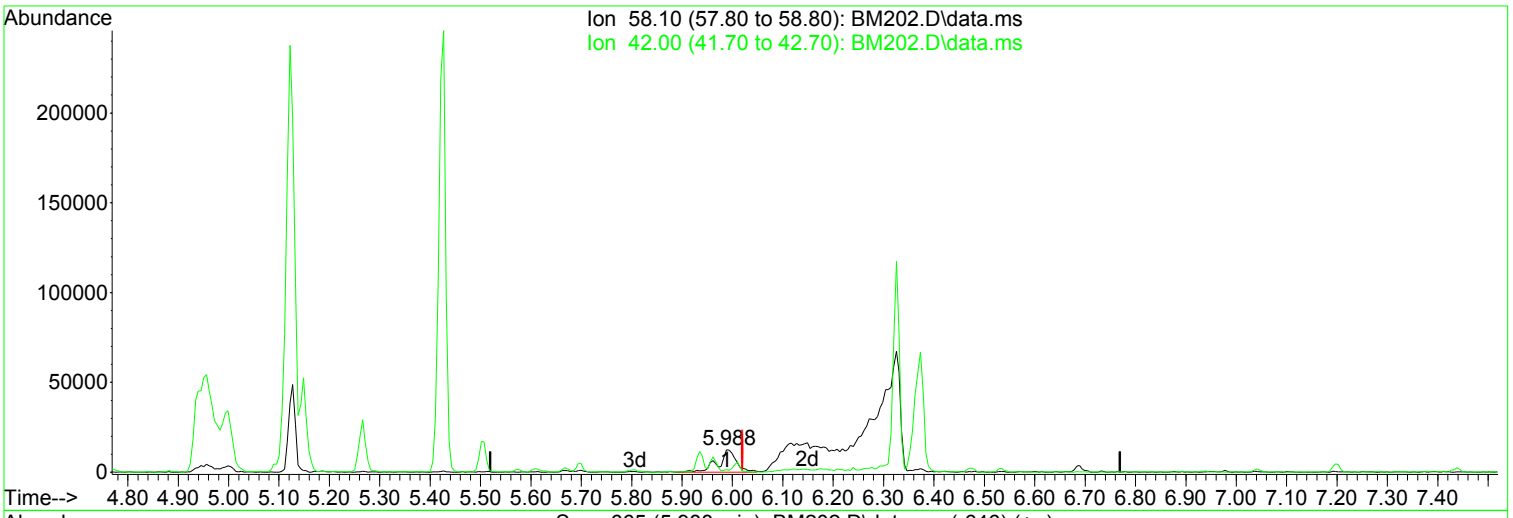
Poor integration.

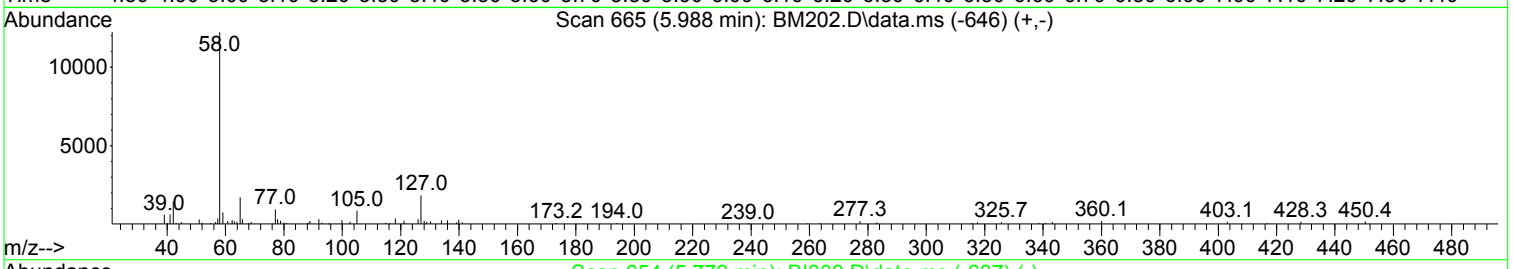
10/26/17

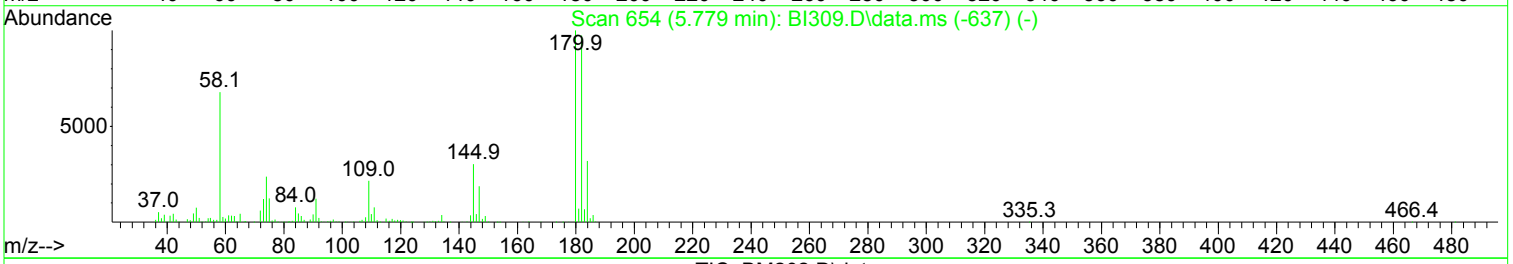
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM202.D
Acq On : 26 Oct 2017 12:44 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:09:54 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM202.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

5.988min (-0.031) 4.17 ppm

response 31574

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	11.62
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM202.D
Acq On : 26 Oct 2017 12:44 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:09:54 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	100721	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	390253	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	176620	40.00	ppm	0.00
91) d10-Phenanthrene	9.112	188	337009	40.00	ppm	0.00
117) d12-Chrysene	12.385	240	323465	40.00	ppm	0.00
135) d12-Perylene	15.311	264	340045	40.00	ppm	0.00
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.710	112	339075	102.06	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 51.03%			
12) SURR2,PHENOL-D6	4.437	99	414483	104.59	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 52.30%			
34) SURR4,NITROBENZENE-D5	5.266	82	363427	103.96	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 103.96%			
63) SURR5,2-FLUOROBIPHENYL	6.978	172	721698	108.94	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 108.94%			
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	122314	105.35	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 52.67%			
124) SURR6,TERPHENYL-D14	10.807	244	729266	100.82	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 100.82%			
Target Compounds						Qvalue
2) Pyridine	2.768	79	319112	98.280	ppm	98
3) N-Nitrosodimethylamine	2.731	74	176292	102.685	ppm	92
4) 2-Picoline	3.293	93	350276	102.058	ppm	96
5) N-Nitrosomethylamine	3.362	42	180886	97.868	ppm	96
6) Methyl Methansulfonate	3.587	80	176277	102.188	ppm	96
8) N-Nitrosodiethylamine	3.892	102	160916	107.071	ppm	94
9) Ethyl Mathanesulfonate	4.122	79	244856	102.070	ppm	98
10) Benzaldehyde	4.405	106	196488	99.170	ppm	94
11) Aniline	4.491	93	547252	104.759	ppm	99
13) Phenol	4.448	94	424435	102.688	ppm	96
14) bis(2-Clethyl)Ether	4.539	93	346517	106.214	ppm	96
15) Pentachloroethane	4.539	117	126074	102.248	ppm	94
16) 2-Chlorophenol	4.592	128	356218	104.170	ppm	99
17) 1,3-Diclbenzene	4.726	146	379691	102.043	ppm	97
18) 1,4-Dichlorobenzene	4.790	146	379765	101.124	ppm	99
19) 1,2-Diclbenzene	4.924	146	368442	103.379	ppm	94
20) Benzyl Alcohol	4.886	79	292630	103.964	ppm	99
21) 1-Methyl-2-pyrrolidinone	4.951	99	214708	103.141	ppm	95
22) 2,2'-oxybis(1-Chloropr...	4.999	45	487430	103.076	ppm	95
23) 2-Methylphenol	4.983	108	298515	102.909	ppm	97
24) 3+4-Methylphenol	5.122	108	329721	103.336	ppm	99
25) Acetophenone	5.127	105	456514	99.628	ppm	85
26) N-Nitroso-Di-n-propyla...	5.127	70	252082	100.752	ppm	96
27) N-Nitrosopyrrolidine	5.116	100	172965	102.513	ppm	64
28) N-Nitrosomorpholine	5.149	56	207527	98.618	ppm	98
29) o-Toluidine	5.159	106	513385	102.071	ppm	92
30) Hexachloroethane	5.223	117	156580	100.054	ppm	97
31) o,o,o-Triethylphosphor...	5.673	198	151451	105.899	ppm	98
32) Alpha-terpinol	5.962	121	131094	102.779	ppm	97
35) Nitrobenzene	5.282	77	400992	102.910	ppm	96
36) N-Nitrosopiperidine	5.427	42	233562	101.267	ppm	99
37) Isophorone	5.507	82	715680	101.564	ppm	98
38) 2-Nitrophenol	5.576	139	187120	106.083	ppm	95

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM202.D
Acq On : 26 Oct 2017 12:44 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 26 14:09:54 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) Benzoic Acid	5.699	105	192950	105.098 ppm	96
40) 2,4-Dimethylphenol	5.609	107	344727	102.962 ppm	93
41) bis(-2-Chloroethoxy)Me...	5.699	93	416571	98.865 ppm	97
42) 2,4-Dichlorophenol	5.806	162	275214	100.279 ppm	97
43) a,a-Dimethylphenethyla...	6.325	58	373286m	49.309 ppm	
44) 1,2,4-Trichlorobenzene	5.876	180	309441	99.297 ppm	98
45) Naphthalene	5.956	128	987126	99.420 ppm	100
46) 4-Chloroaniline	6.010	127	416206	99.989 ppm	99
47) 2,6-Dichlorophenol	6.015	162	274056	99.249 ppm	93
48) Hexachlorobutadiene	6.069	225	179457	101.092 ppm	97
49) Hexachloropropene	6.036	213	216676	102.601 ppm	98
50) 4-Chloro-3-methylphenol	6.475	107	277301	102.672 ppm	99
51) N-N-di-n-butylamine	6.325	84	220410	90.247 ppm	96
52) Caprolactam	6.373	113	95265	102.904 ppm	97
53) p-Phenylenediamine	6.363	80	146978	91.424 ppm	83
54) Safrole	6.534	162	263178	102.949 ppm	97
55) 2-Methylnaphthalene	6.625	142	660817	100.095 ppm	96
56) 1-Methylnaphthalene	6.721	142	602981	100.673 ppm	98
58) Hexachlorocyclopentadiene	6.775	237	195017	110.532 ppm	94
59) 1,2,4,5-Tetrachloroben...	6.785	216	309726	108.289 ppm	98
60) 1,2,3,4-Tetrachloroben...	7.063	216	281848	109.688 ppm	97
61) 2,4,6-Trichlorophenol	6.898	196	199795	109.012 ppm	99
62) 2,4,5-Trichlorophenol	6.935	196	193932	106.173 ppm	97
64) Isosafrole	7.042	104	125116	109.473 ppm	90
65) 1,1'-Biphenyl	7.079	154	787928	108.379 ppm	99
66) 2-Chloronaphthalene	7.101	162	621406	109.481 ppm	99
67) 2-Nitroaniline	7.197	65	172656	110.627 ppm	98
68) 1,4-Naphthoquinone	7.272	158	46522	76.823 ppm	95
69) m-Dinitrobenzene	7.411	168	95895	108.431 ppm	70
70) Acenaphthylene	7.507	152	906078	101.484 ppm	99
71) Dimethyl phthalate	7.379	163	615631	100.193 ppm	99
72) 2,6-Dinitrotoluene	7.438	165	157037	103.404 ppm	91
73) Acenaphthene	7.678	153	615954	104.110 ppm	99
74) 3-Nitroaniline	7.609	138	165836	109.682 ppm	97
75) 2,4-Dinitrophenol	7.711	184	81740	102.467 ppm	94
76) Dibenzofuran	7.844	168	799566	101.138 ppm	99
77) 2,4-Dinitrotoluene	7.839	165	211364	100.125 ppm	98
78) 4-Nitrophenol	7.775	65	137233	105.285 ppm	96
79) Pentachlorobenzene	7.801	250	255132	101.217 ppm	98
80) 1-Napthylamine	7.930	143	448764	97.790 ppm	97
81) 2-Napthylamine	8.005	143	479722	97.604 ppm	94
82) 2,3,4,6-Tetrachlorophenol	7.967	232	156438	110.933 ppm	96
83) Fluorene	8.187	166	674532	104.601 ppm	99
84) 4-Chlorophenyl-phenyle...	8.181	204	342664	101.345 ppm	99
85) Diethylphthalate	8.074	149	672222	102.215 ppm	99
86) 4-Nitroaniline	8.213	138	187534	110.798 ppm	97
87) 5-Nitro-o-toluidine	8.203	152	202291	114.987 ppm	93
89) Sulfotepp	8.459	322	114020	108.979 ppm	94
90) Octachlorocyclopentene	8.433	307	120440	108.371 ppm	98
92) Thionazin	8.160	107	106552	103.051 ppm	88
93) 4,6-Dinitro-2-methylph...	8.240	198	123296	106.260 ppm	91
94) Diphenylamine	8.304	169	961866	193.492 ppm	99
95) 1,2 Diphenylhydrazine	8.342	77	651589	94.612 ppm	94
96) N-Nitrosodiphenylamine	8.304	169	962032	193.520 ppm	99
97) 1,3,5-Trinirobenzene	8.577	213	57229	105.129 ppm	78
98) Diallate	8.582	86	218831	95.380 ppm	92

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM202.D
Acq On : 26 Oct 2017 12:44 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

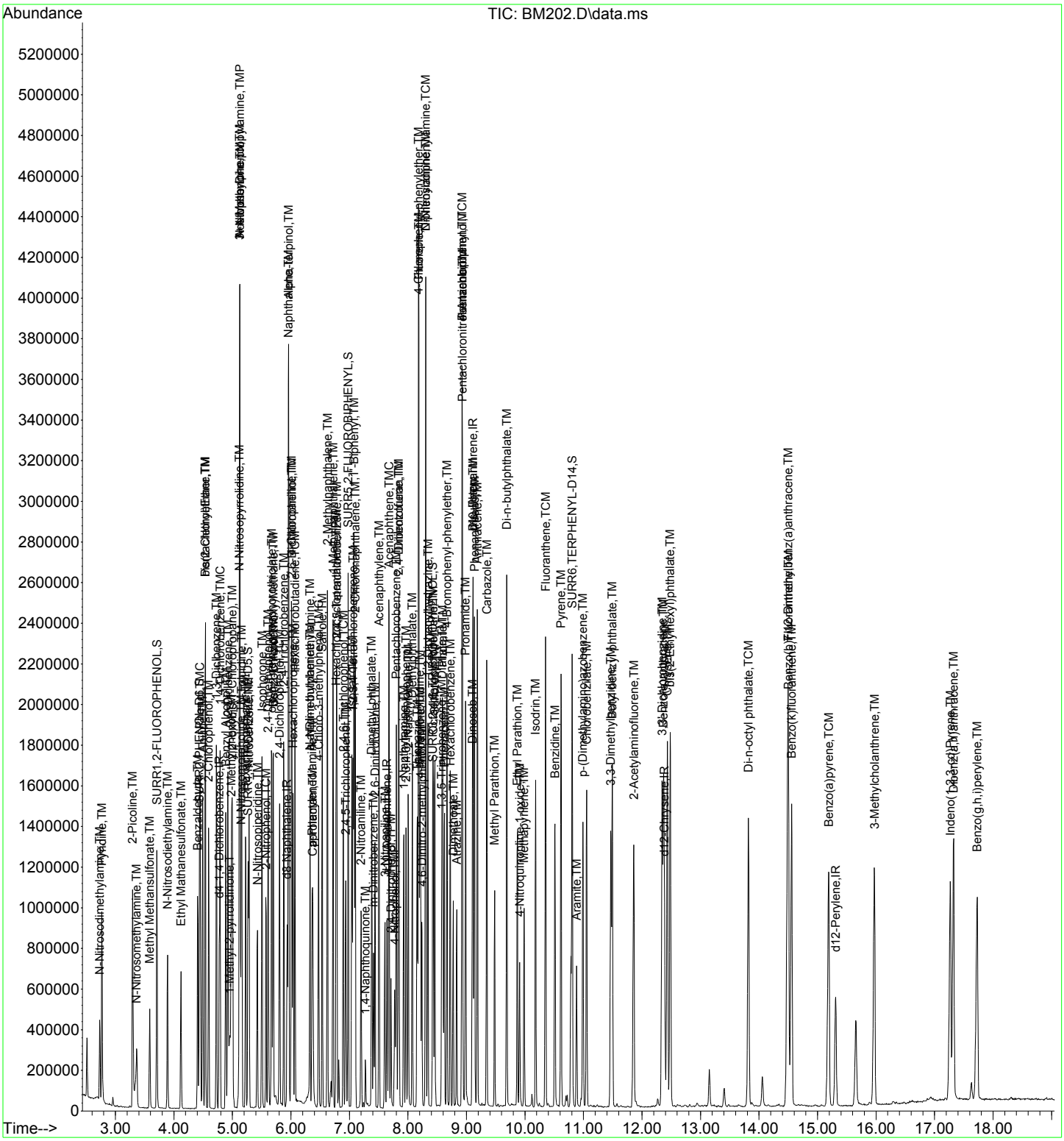
Quant Time: Oct 26 14:09:54 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.593	121	115511	98.786	ppm	97
100) Phenacetin	8.625	108	337478	102.824	ppm	93
101) 4-Bromophenyl-phenylether	8.668	248	204506	96.764	ppm	95
102) Hexachlorobenzene	8.727	284	212725	92.566	ppm	91
103) Dimethoate	8.775	87	185702	91.901	ppm	97
104) Atrazine	8.834	215	53877	89.799	ppm	95
105) Pentachlorophenol	8.925	266	144825	107.040	ppm	94
106) 4-Aminobiphenyl	8.925	169	615633	111.046	ppm	98
107) Pentachloronitrobenzene	8.930	237	93048	113.598	ppm	98
108) Pronamide	8.984	173	302649	106.572	ppm	99
109) Dinoseb	9.101	211	154143	108.248	ppm	98
110) Disulfoton	9.112	88	251002	94.552	ppm	96
111) Phenanthrene	9.139	178	875109	96.480	ppm	99
112) Anthracene	9.187	178	880625	98.319	ppm	99
113) Carbazole	9.347	167	840507	93.686	ppm	98
114) Di-n-butylphthalate	9.690	149	1250139	108.237	ppm	99
115) 4-Nitroquinonline-1-oxide	9.909	190	73928	104.515	ppm	99
116) Fluoranthene	10.353	202	973265	98.223	ppm	99
118) Methyl Parathion	9.481	109	162588	106.773	ppm	96
119) Ethyl Parathion	9.871	97	133619	106.438	ppm	98
120) Methapyrilene	9.984	58	266075	102.306	ppm	95
121) Isodrin	10.182	193	103305	108.408	ppm	91
122) Benzidine	10.513	184	603521	100.942	ppm	97
123) Pyrene	10.615	202	982162	100.303	ppm	100
125) Aramite	10.882	185	121016m	99.250	ppm	
126) p-(Dimethylamino)azobe...	10.989	120	275668	101.912	ppm	96
127) Chlorobenzilate	11.053	139	323804	101.533	ppm	99
128) Butyl benzyl phthalate	11.492	149	493545	101.810	ppm	98
129) 3,3-Dimethylbenzidine	11.465	212	596669	104.957	ppm	99
130) 2-Acetylaminofluorene	11.861	181	424251	107.483	ppm	99
131) 3,3'-Dichlorobenzidine	12.342	252	417752	103.289	ppm	98
132) Benzo(a)anthracene	12.369	228	948917	100.091	ppm	99
133) Chrysene	12.433	228	920630	100.964	ppm	99
134) bis(2-Ethylhexyl)phtha...	12.482	149	773456	108.851	ppm	97
136) Di-n-octyl phthalate	13.819	149	1202891	102.748	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.498	256	440146	99.772	ppm	93
138) Benzo(b)Fluoranthene	14.503	252	1001368	97.943	ppm	98
139) Benzo(k)fluoranthene	14.557	252	971040	98.872	ppm	95
140) Benzo(a)pyrene	15.193	252	884967	98.914	ppm	99
141) 3-Methylcholanthrene	15.974	268	498272	96.870	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.269	276	803870	90.019	ppm	99
143) Dibenz(a,h)anthracene	17.327	278	875060	92.828	ppm	99
144) Benzo(g,h,i)perylene	17.729	276	790672	90.823	ppm	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM202.D
Acq On : 26 Oct 2017 12:44 pm
Operator : J.Misiurewicz
Sample : 100 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 9 Sample Multiplier: 1

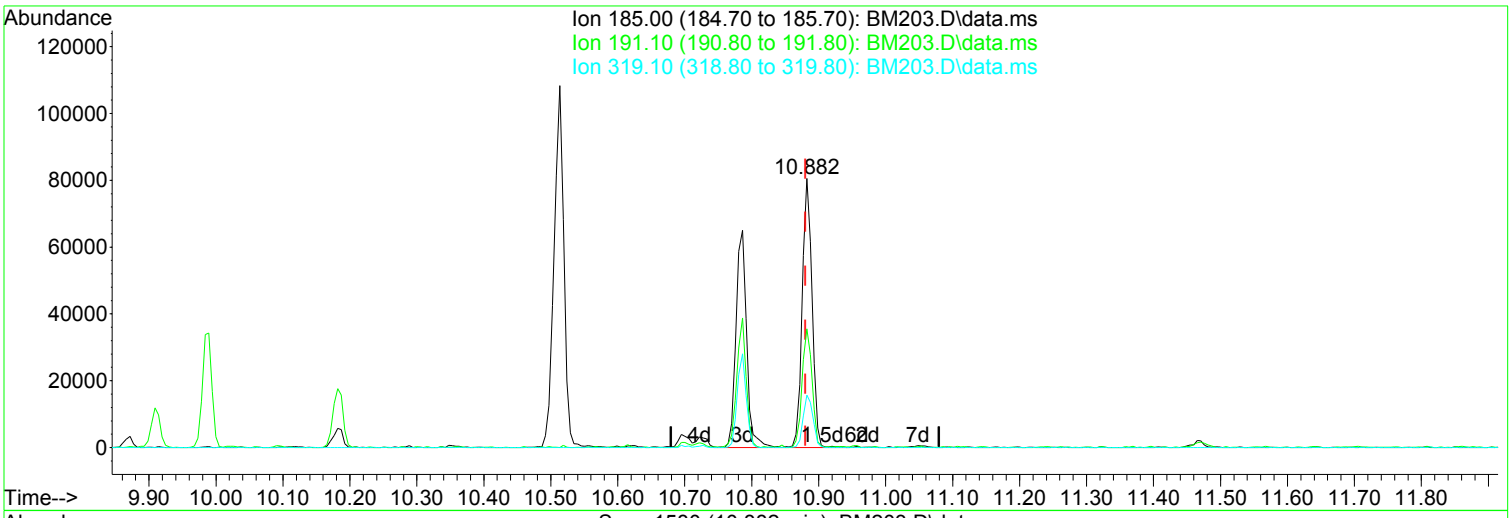
Quant Time: Oct 26 14:09:54 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

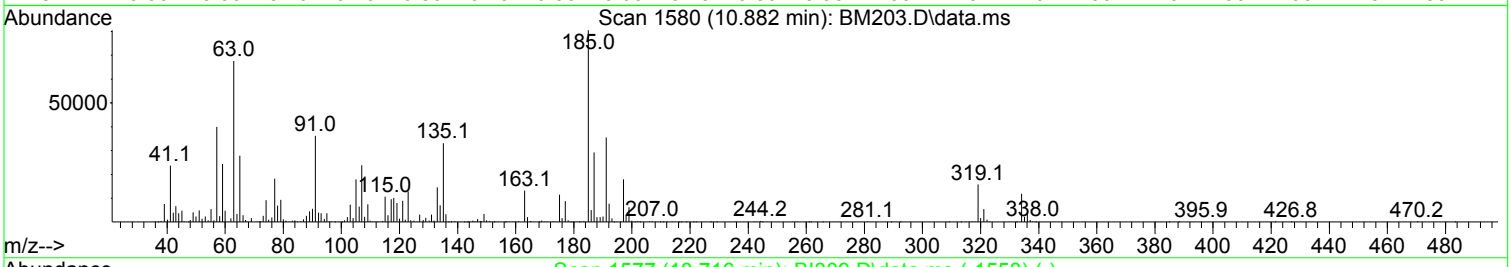


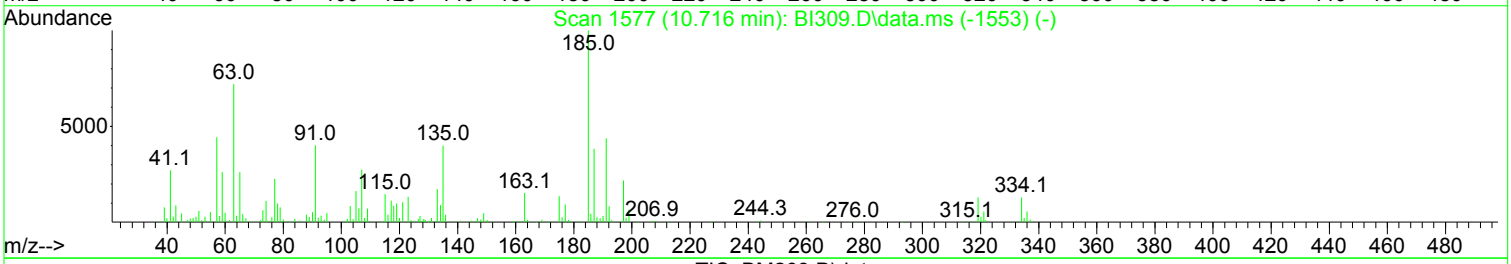
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM203.D
Acq On : 26 Oct 2017 1:13 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:10:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM203.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 118.44 ppm m

response 153890

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	44.17
319.10	22.50	19.55
0.00	0.00	0.00

Manual Integration:

After

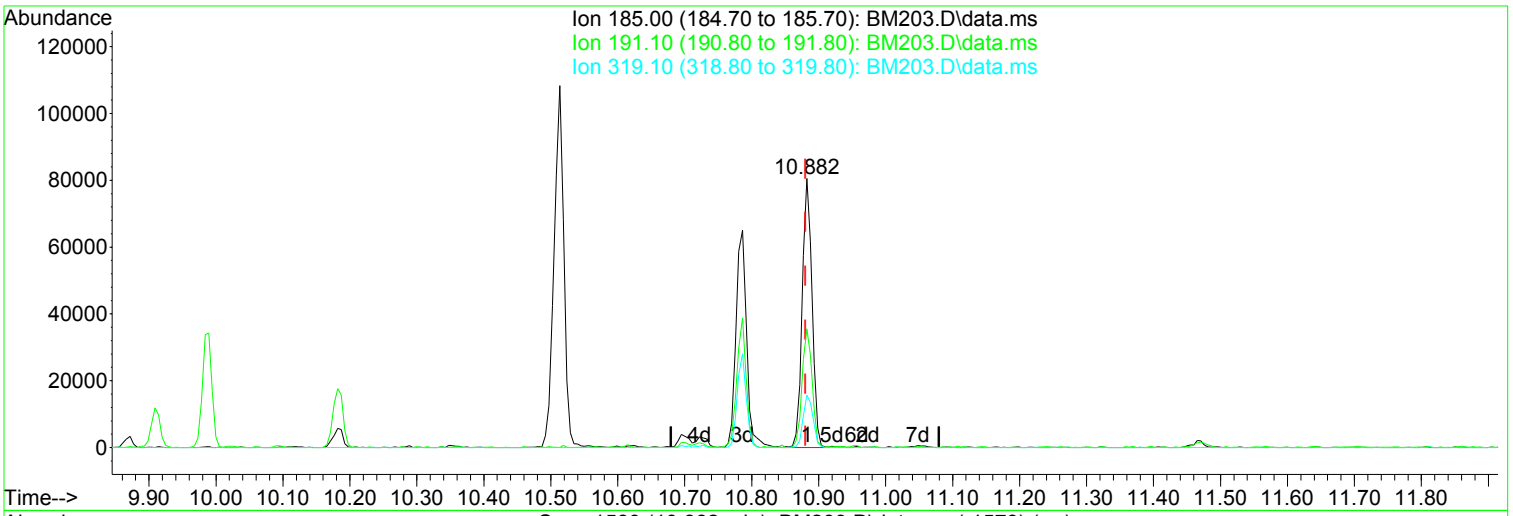
Split Peak.

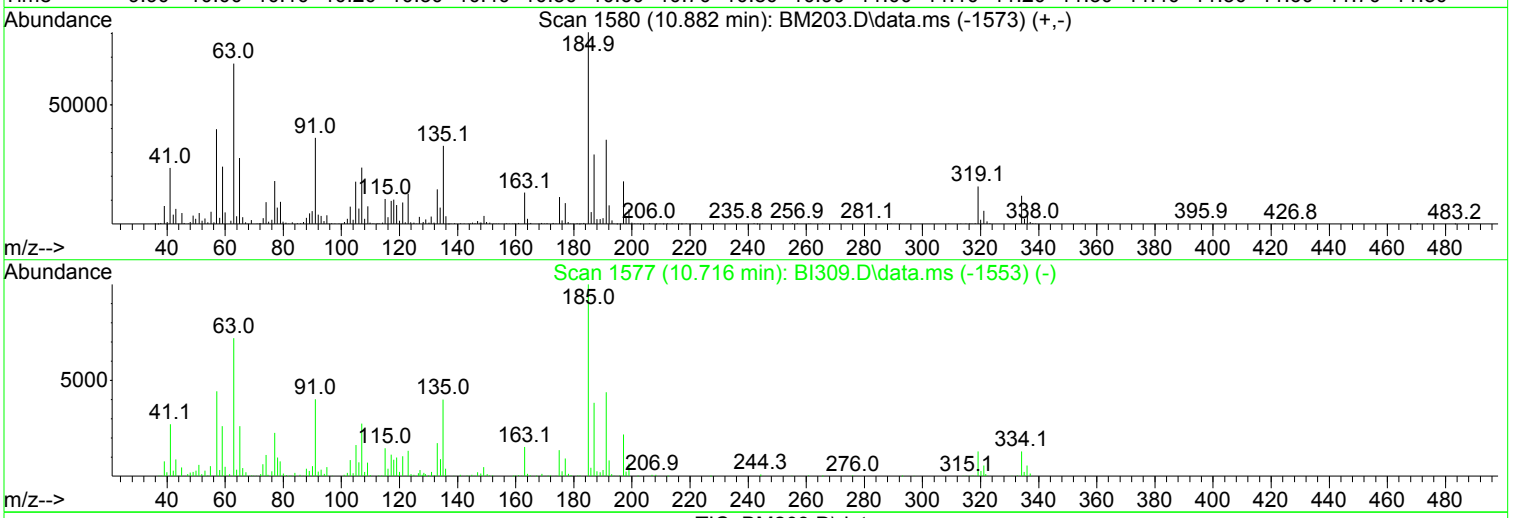
10/26/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM203.D
Acq On : 26 Oct 2017 1:13 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:10:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration





TIC: BM203.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 63.08 ppm

response 81962

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	43.55
319.10	22.50	19.58
0.00	0.00	0.00

Manual Integration:

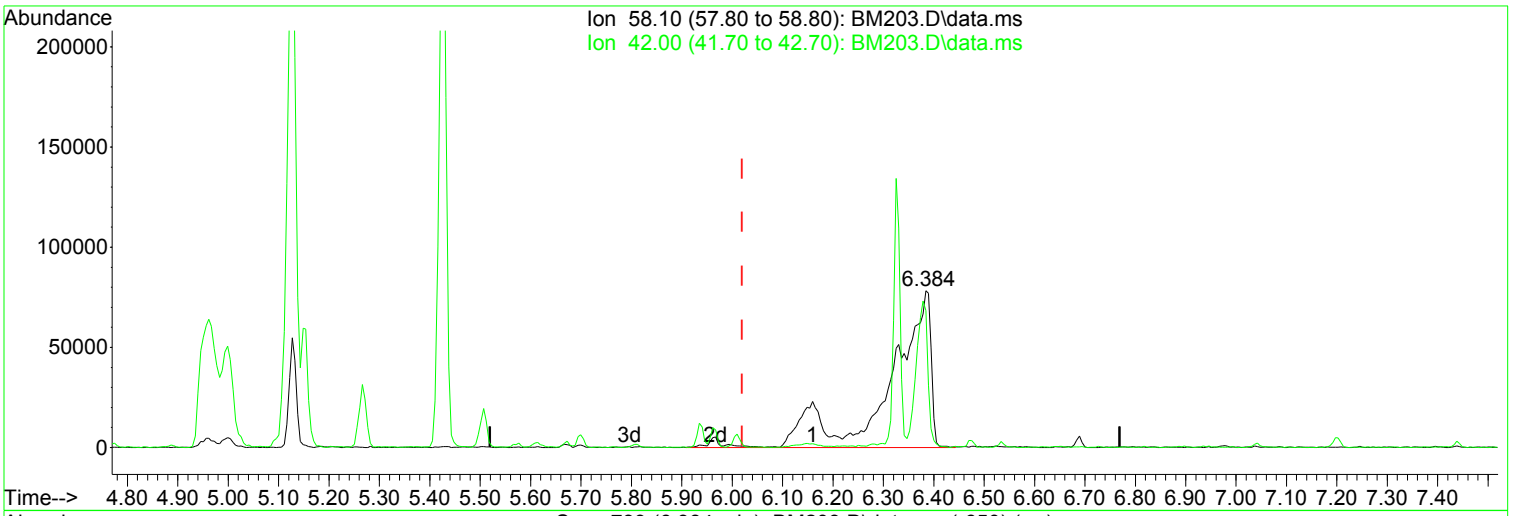
Before

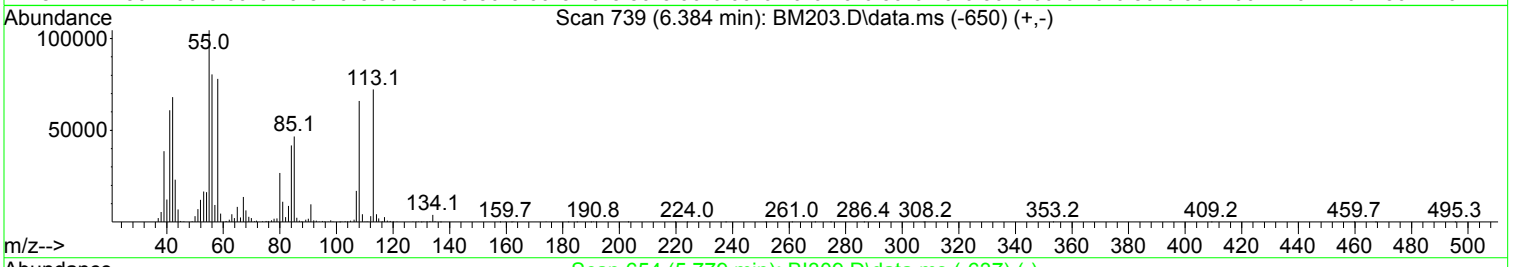
10/26/17

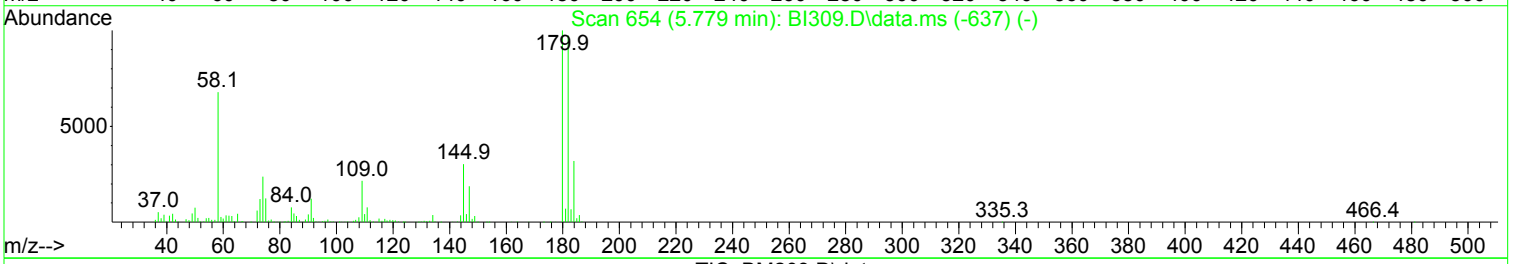
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM203.D
Acq On : 26 Oct 2017 1:13 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:10:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM203.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.384min (+ 0.364) 59.67 ppm m

response 447103

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	87.45#
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

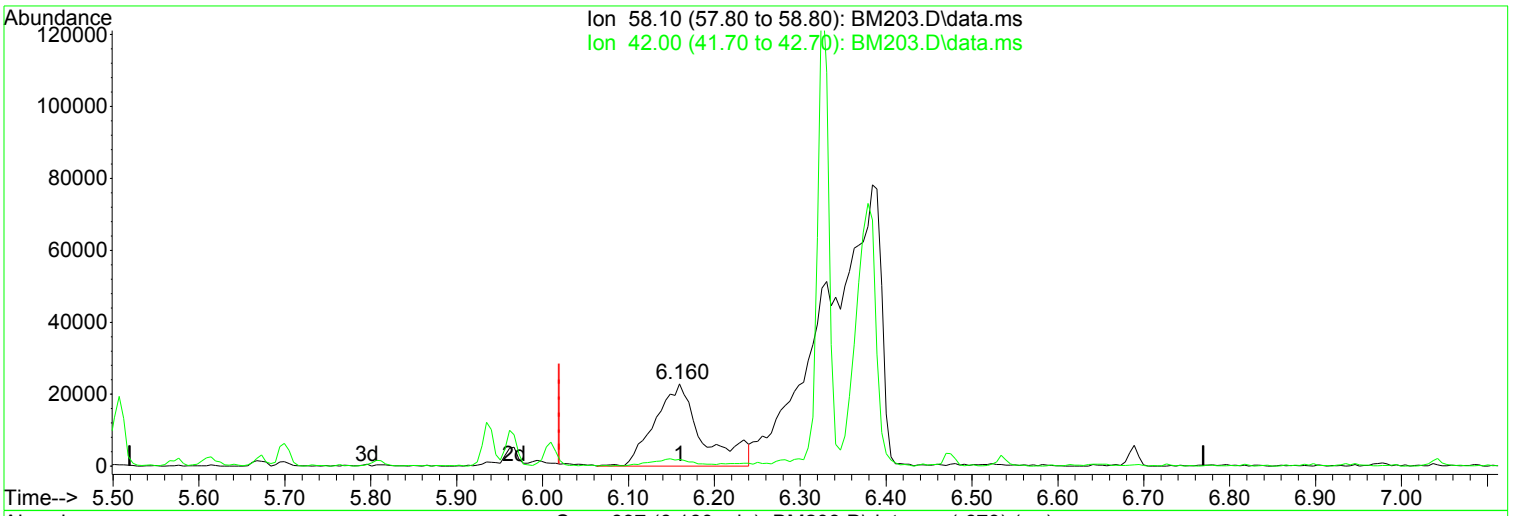
Poor integration.

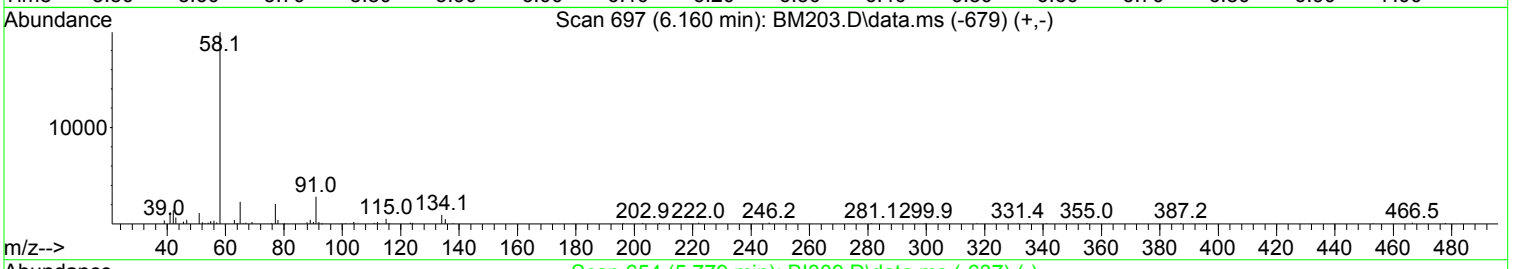
10/26/17

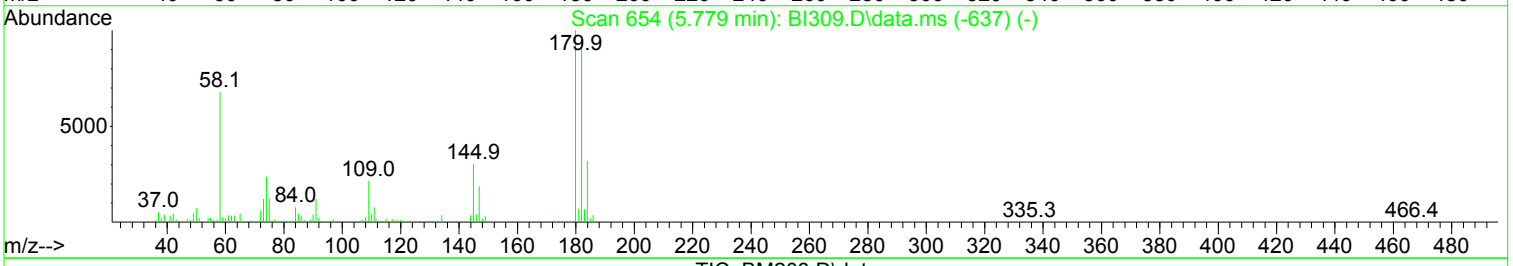
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM203.D
Acq On : 26 Oct 2017 1:13 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:10:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM203.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.160min (+ 0.140) 11.62 ppm

response 87074

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	7.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM203.D
Acq On : 26 Oct 2017 1:13 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:10:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.774	152	100582	40.00	ppm		0.00
33) d8-Naphthalene	5.935	136	386246	40.00	ppm		0.00
57) d10-Acenaphthene	7.641	164	183452	40.00	ppm		0.00
91) d10-Phenanthrene	9.112	188	356528	40.00	ppm		0.00
117) d12-Chrysene	12.385	240	344689	40.00	ppm		0.00
135) d12-Perylene	15.311	264	349171	40.00	ppm		0.00
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.710	112	417305	125.78	ppm		0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 62.89%				
12) SURR2,PHENOL-D6	4.443	99	507230	128.17	ppm		0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 64.08%				
34) SURR4,NITROBENZENE-D5	5.266	82	435084	125.75	ppm		0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 125.75%#				
63) SURR5,2-FLUOROBIPHENYL	6.978	172	814061	118.31	ppm		0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 118.31%				
88) SURR3,2,4,6-TRIBROMOPH...	8.422	330	149885	124.29	ppm		0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 62.15%				
124) SURR6,TERPHENYL-D14	10.807	244	930289	120.69	ppm		0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 120.69%				
Target Compounds							Qvalue
2) Pyridine	2.768	79	380191	117.253	ppm		99
3) N-Nitrosodimethylamine	2.736	74	213700	124.646	ppm		92
4) 2-Picoline	3.293	93	431641	125.938	ppm		98
5) N-Nitrosomethylamine	3.362	42	218992	118.649	ppm		97
6) Methyl Methansulfonate	3.587	80	213078	123.692	ppm		99
8) N-Nitrosodiethylamine	3.892	102	186701	124.399	ppm		86
9) Ethyl Mathanesulfonate	4.122	79	297540	124.203	ppm		96
10) Benzaldehyde	4.405	106	218385	110.374	ppm		91
11) Aniline	4.491	93	669109	128.263	ppm		99
13) Phenol	4.453	94	512280	124.113	ppm		96
14) bis(2-Clethyl)Ether	4.539	93	404733	124.230	ppm		99
15) Pentachloroethane	4.539	117	149058	121.055	ppm		94
16) 2-Chlorophenol	4.592	128	419201	122.757	ppm		99
17) 1,3-Diclbenzene	4.726	146	449497	120.971	ppm		98
18) 1,4-Dichlorobenzene	4.790	146	453033	120.800	ppm		99
19) 1,2-Diclbenzene	4.924	146	439849	123.585	ppm		98
20) Benzyl Alcohol	4.887	79	353505	125.764	ppm		98
21) 1-Methyl-2-pyrrolidinone	4.961	99	260094	125.117	ppm		95
22) 2,2'-oxybis(1-Chloropr...	4.999	45	589005	124.728	ppm		94
23) 2-Methylphenol	4.988	108	355276	122.646	ppm		92
24) 3+4-Methylphenol	5.127	108	392768	123.266	ppm		88
25) Acetophenone	5.127	105	549116	120.003	ppm		80
26) N-Nitroso-Di-n-propyla...	5.127	70	310630	124.324	ppm		85
27) N-Nitrosopyrrolidine	5.122	100	210863	125.148	ppm	#	36
28) N-Nitrosomorpholine	5.149	56	258250	122.891	ppm		93
29) o-Toluidine	5.159	106	621075	123.653	ppm		87
30) Hexachloroethane	5.223	117	188755	120.780	ppm		97
31) o,o,o-Triethylphosphor...	5.673	198	184192	128.971	ppm		98
32) Alpha-terpinol	5.962	121	160647	126.123	ppm		97
35) Nitrobenzene	5.288	77	490897	127.290	ppm		99
36) N-Nitrosopiperidine	5.427	42	279760	122.556	ppm		100
37) Isophorone	5.507	82	860604	123.398	ppm		100
38) 2-Nitrophenol	5.577	139	229263	131.323	ppm		93

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM203.D
Acq On : 26 Oct 2017 1:13 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:10:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.710	105	232734	128.084	ppm		96
40) 2,4-Dimethylphenol	5.614	107	402631	121.504	ppm		95
41) bis(-2-Chloroethoxy)Me...	5.700	93	504175	120.897	ppm		99
42) 2,4-Dichlorophenol	5.806	162	340792	125.462	ppm		98
43) a,a-Dimethylphenethyla...	6.384	58	447103m	59.673	ppm		
44) 1,2,4-Trichlorobenzene	5.881	180	367557	119.170	ppm		96
45) Naphthalene	5.956	128	1167511	118.808	ppm		99
46) 4-Chloroaniline	6.010	127	499767	121.309	ppm		98
47) 2,6-Dichlorophenol	6.020	162	326190	119.354	ppm		95
48) Hexachlorobutadiene	6.069	225	210485	119.801	ppm		98
49) Hexachloropropene	6.036	213	258311	123.585	ppm		97
50) 4-Chloro-3-methylphenol	6.475	107	336561	125.906	ppm		96
51) N-N-di-n-butylamine	6.325	84	263633	109.064	ppm		95
52) Caprolactam	6.379	113	113496	123.869	ppm		97
53) p-Phenylenediamine	6.363	80	163289	102.623	ppm		97
54) Safrole	6.534	162	306912	121.303	ppm		98
55) 2-Methylnaphthalene	6.625	142	773169	118.328	ppm		96
56) 1-Methylnaphthalene	6.721	142	701571	118.349	ppm		97
58) Hexachlorocyclopentadiene	6.775	237	227534	124.160	ppm		97
59) 1,2,4,5-Tetrachloroben...	6.785	216	364575	122.719	ppm		99
60) 1,2,3,4-Tetrachloroben...	7.063	216	315962	118.385	ppm		95
61) 2,4,6-Trichlorophenol	6.898	196	234034	122.938	ppm		97
62) 2,4,5-Trichlorophenol	6.940	196	225103	118.649	ppm		100
64) Isosafrole	7.042	104	139013	117.103	ppm		95
65) 1,1'-Biphenyl	7.079	154	890429	117.917	ppm		98
66) 2-Chloronaphthalene	7.101	162	689906	117.022	ppm		99
67) 2-Nitroaniline	7.202	65	200712	123.814	ppm		93
68) 1,4-Naphthoquinone	7.272	158	56427	89.709	ppm		95
69) m-Dinitrobenzene	7.416	168	121543	132.313	ppm	#	72
70) Acenaphthylene	7.507	152	1090619	117.604	ppm		100
71) Dimethyl phthalate	7.384	163	772596	121.056	ppm		98
72) 2,6-Dinitrotoluene	7.443	165	194669	123.409	ppm		97
73) Acenaphthene	7.679	153	712675	115.972	ppm		96
74) 3-Nitroaniline	7.609	138	209713	133.537	ppm		97
75) 2,4-Dinitrophenol	7.711	184	106526	121.915	ppm		98
76) Dibenzofuran	7.844	168	945148	115.101	ppm		99
77) 2,4-Dinitrotoluene	7.839	165	267124	118.572	ppm		96
78) 4-Nitrophenol	7.775	65	175451	129.592	ppm		90
79) Pentachlorobenzene	7.802	250	301005	114.969	ppm		99
80) 1-Napthylamine	7.930	143	592692	124.343	ppm		95
81) 2-Napthylamine	8.010	143	611728	119.826	ppm		95
82) 2,3,4,6-Tetrachlorophenol	7.967	232	191777	130.928	ppm		96
83) Fluorene	8.187	166	775177	115.732	ppm		99
84) 4-Chlorophenyl-phenyle...	8.181	204	393537	112.056	ppm		97
85) Diethylphthalate	8.074	149	807829	118.260	ppm		98
86) 4-Nitroaniline	8.219	138	212289	120.752	ppm		97
87) 5-Nitro-o-toluidine	8.208	152	235946	129.122	ppm		95
89) Sulfotepp	8.459	322	137310	126.352	ppm		86
90) Octachlorocyclopentene	8.433	307	143248	124.093	ppm		98
92) Thionazin	8.160	107	124116	113.466	ppm		92
93) 4,6-Dinitro-2-methylph...	8.240	198	146981	118.262	ppm		94
94) Diphenylamine	8.304	169	1251020	237.881	ppm		99
95) 1,2 Diphenylhydrazine	8.342	77	821671	112.776	ppm		96
96) N-Nitrosodiphenylamine	8.304	169	1251099	237.890	ppm		99
97) 1,3,5-Trinirobenzene	8.582	213	75008	130.246	ppm	#	70
98) Diallate	8.582	86	256905	105.845	ppm		86

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM203.D
Acq On : 26 Oct 2017 1:13 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 26 14:10:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

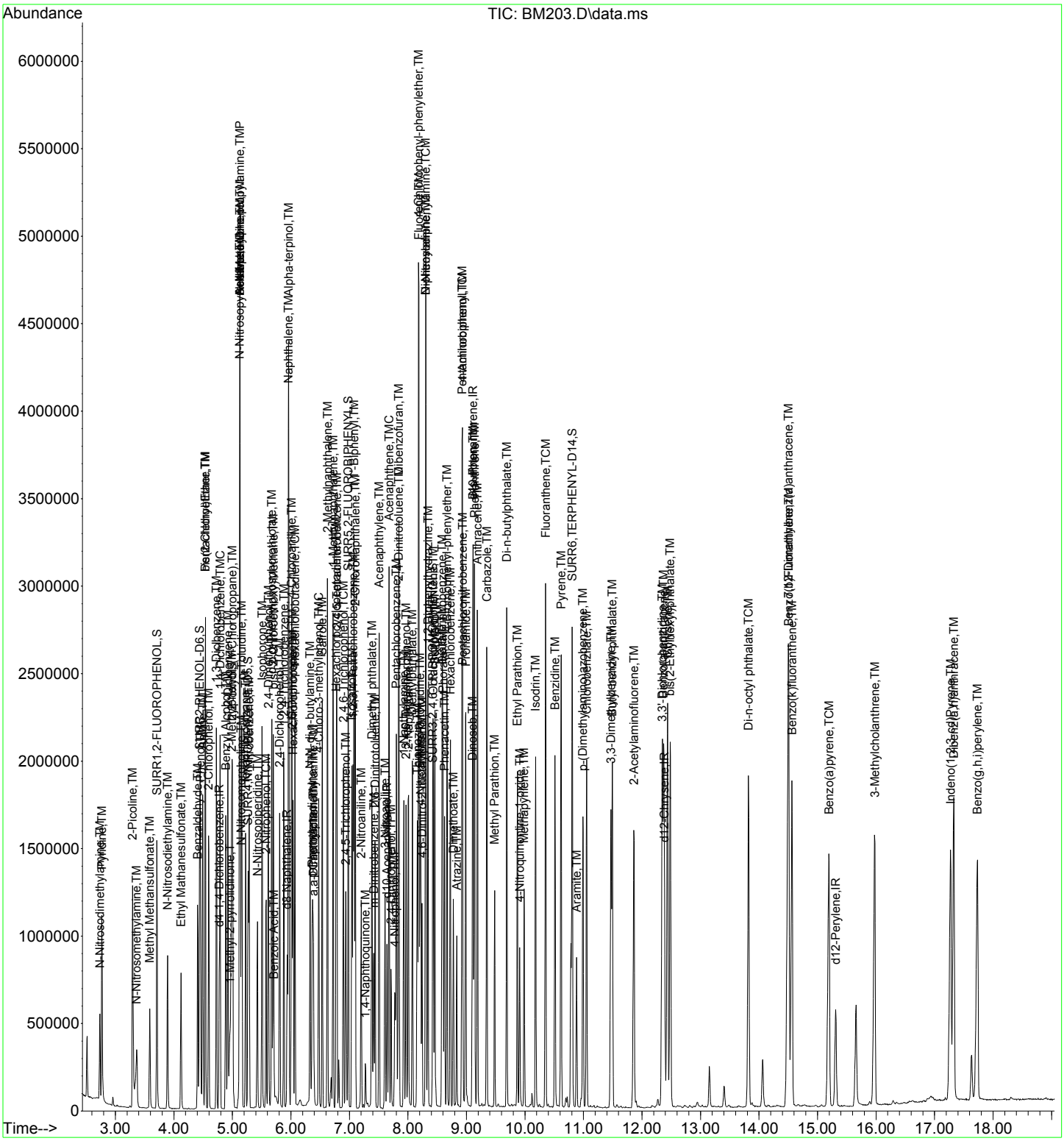
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
99) Phorate	8.598	121	144560	116.861	ppm	97
100) Phenacetin	8.625	108	399545	115.070	ppm	95
101) 4-Bromophenyl-phenylether	8.668	248	241098	107.832	ppm	94
102) Hexachlorobenzene	8.727	284	278578	114.586	ppm	96
103) Dimethoate	8.775	87	230675	107.907	ppm	96
104) Atrazine	8.834	215	48576	76.531	ppm	95
105) Pentachlorophenol	8.925	266	170066	117.028	ppm	99
106) 4-Aminobiphenyl	8.930	169	659540	112.453	ppm	99
107) Pentachloronitrobenzene	8.935	237	108270	124.946	ppm	91
108) Pronamide	8.989	173	368278	122.582	ppm	99
109) Dinoseb	9.101	211	195223	129.591	ppm	97
110) Disulfoton	9.112	88	331046	117.877	ppm	97
111) Phenanthrene	9.139	178	1098858	114.516	ppm	98
112) Anthracene	9.187	178	1081100	114.094	ppm	99
113) Carbazole	9.347	167	1042365	109.824	ppm	98
114) Di-n-butylphthalate	9.690	149	1387910	113.586	ppm	99
115) 4-Nitroquinonline-1-oxide	9.909	190	96975	129.592	ppm	93
116) Fluoranthene	10.353	202	1240502	118.338	ppm	99
118) Methyl Parathion	9.481	109	193022	118.955	ppm	96
119) Ethyl Parathion	9.871	97	176344	131.822	ppm	96
120) Methapyrilene	9.984	58	343644	123.995	ppm	94
121) Isodrin	10.182	193	128835	126.875	ppm	88
122) Benzidine	10.513	184	804460	126.266	ppm	99
123) Pyrene	10.620	202	1255370	120.310	ppm	99
125) Aramite	10.882	185	153890m	118.440	ppm	
126) p-(Dimethylamino)azobe...	10.989	120	342382	118.782	ppm	92
127) Chlorobenzilate	11.054	139	400432	117.830	ppm	98
128) Butyl benzyl phthalate	11.492	149	607864	117.671	ppm	99
129) 3,3-Dimethylbenzidine	11.471	212	728669	120.285	ppm	98
130) 2-Acetylaminofluorene	11.861	181	529981	126.001	ppm	99
131) 3,3'-Dichlorobenzidine	12.343	252	541377	125.614	ppm	99
132) Benzo(a)anthracene	12.369	228	1235438	122.289	ppm	99
133) Chrysene	12.439	228	1165793	119.978	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.482	149	910662	120.269	ppm	97
136) Di-n-octyl phthalate	13.819	149	1507975	125.441	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.503	256	573561	126.616	ppm	97
138) Benzo(b)Fluoranthene	14.509	252	1299932	123.823	ppm	98
139) Benzo(k)fluoranthene	14.562	252	1219366	120.911	ppm	97
140) Benzo(a)pyrene	15.199	252	1147096	124.862	ppm	99
141) 3-Methylcholanthrene	15.980	268	691458	130.914	ppm	100
142) Indeno(1,2,3-cd)Pyrene	17.274	276	1130435	123.280	ppm	99
143) Dibenz(a,h)anthracene	17.333	278	1232823	127.362	ppm	99
144) Benzo(g,h,i)perylene	17.734	276	1102360	123.317	ppm	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM203.D
Acq On : 26 Oct 2017 1:13 pm
Operator : J.Misiurewicz
Sample : 120 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 10 Sample Multiplier: 1

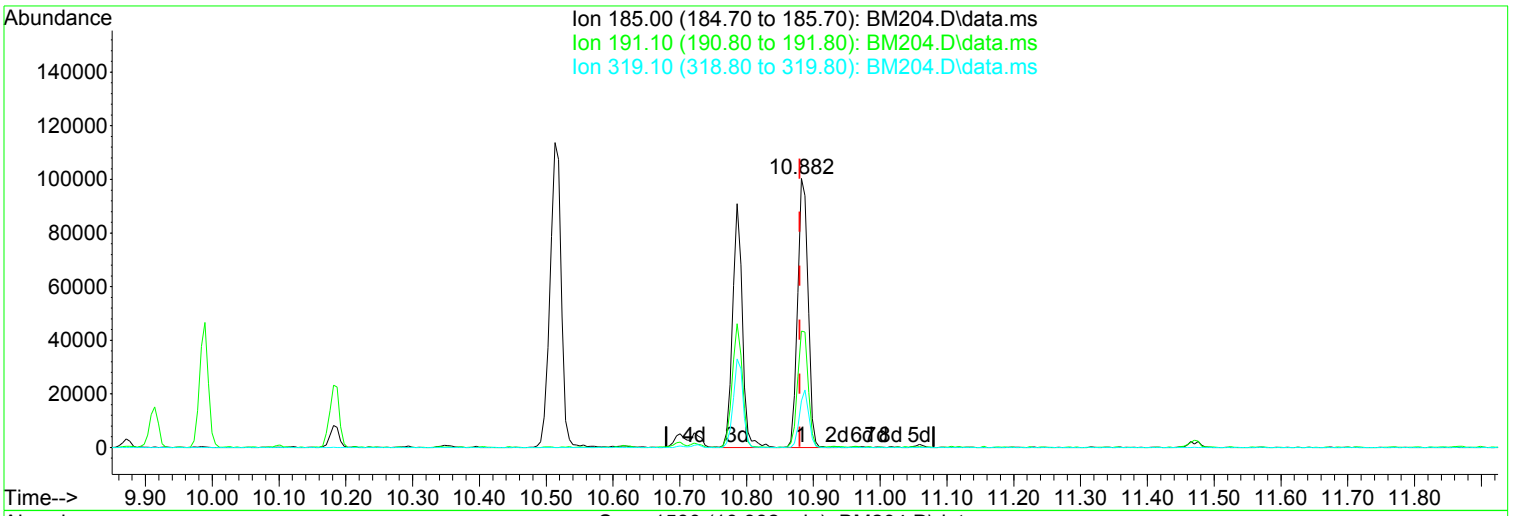
Quant Time: Oct 26 14:10:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

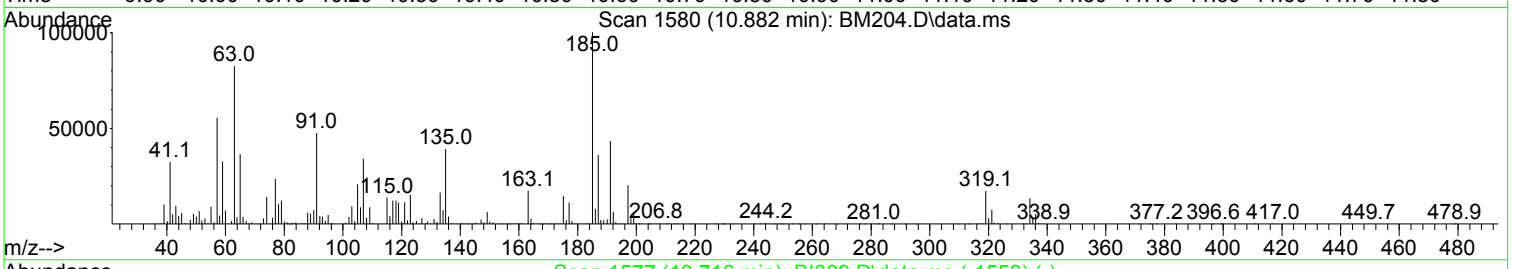


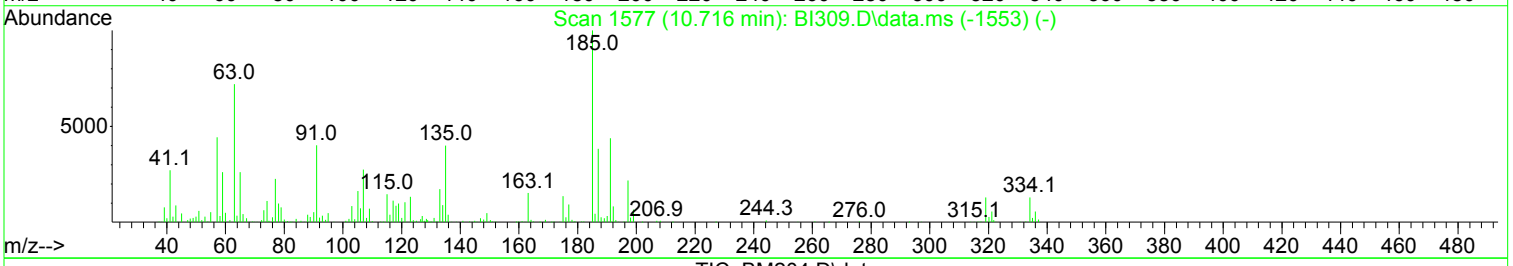
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM204.D
Acq On : 26 Oct 2017 1:41 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 14:10:08 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM204.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 156.53 ppm m

response 200433

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	43.32
319.10	22.50	17.32
0.00	0.00	0.00

Manual Integration:

After

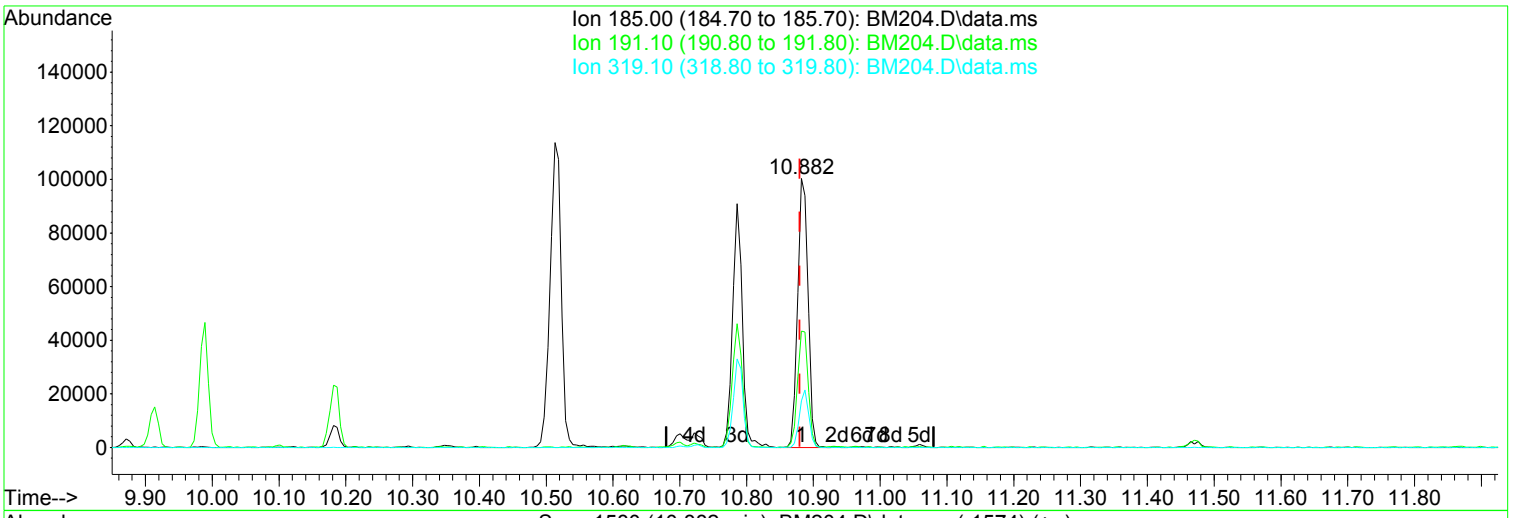
Split Peak.

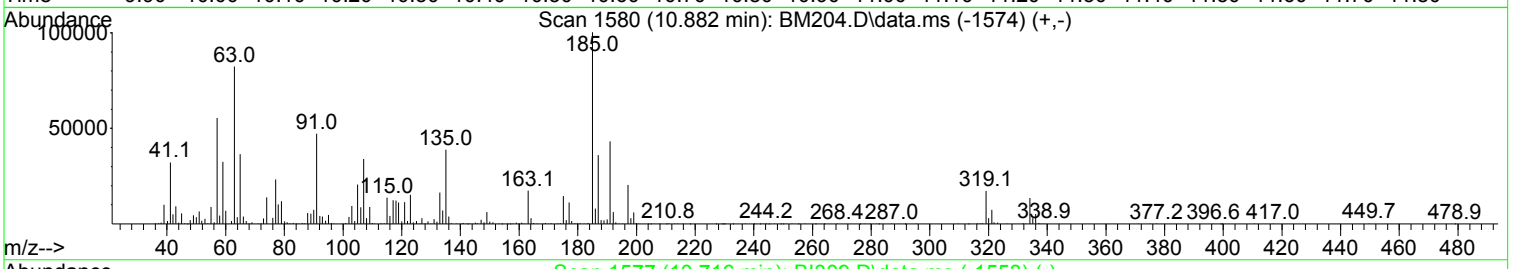
10/26/17

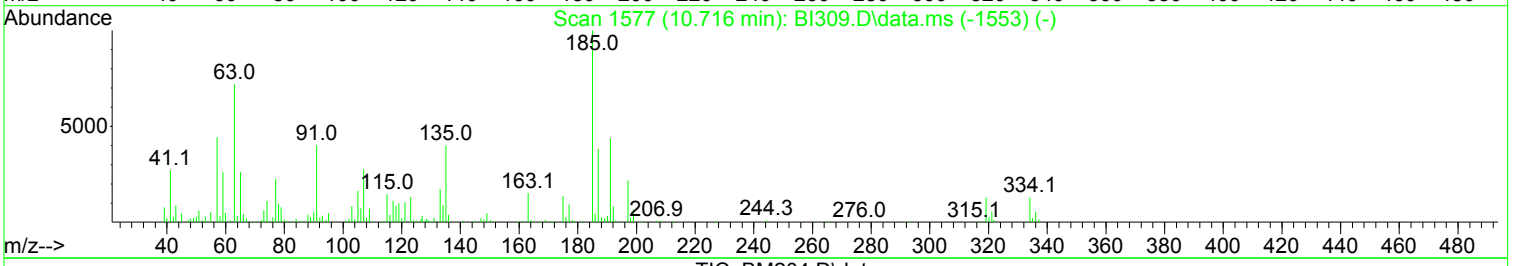
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM204.D
Acq On : 26 Oct 2017 1:41 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 14:10:08 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM204.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.002) 84.52 ppm

response 108227

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	43.06
319.10	22.50	17.28
0.00	0.00	0.00

Manual Integration:

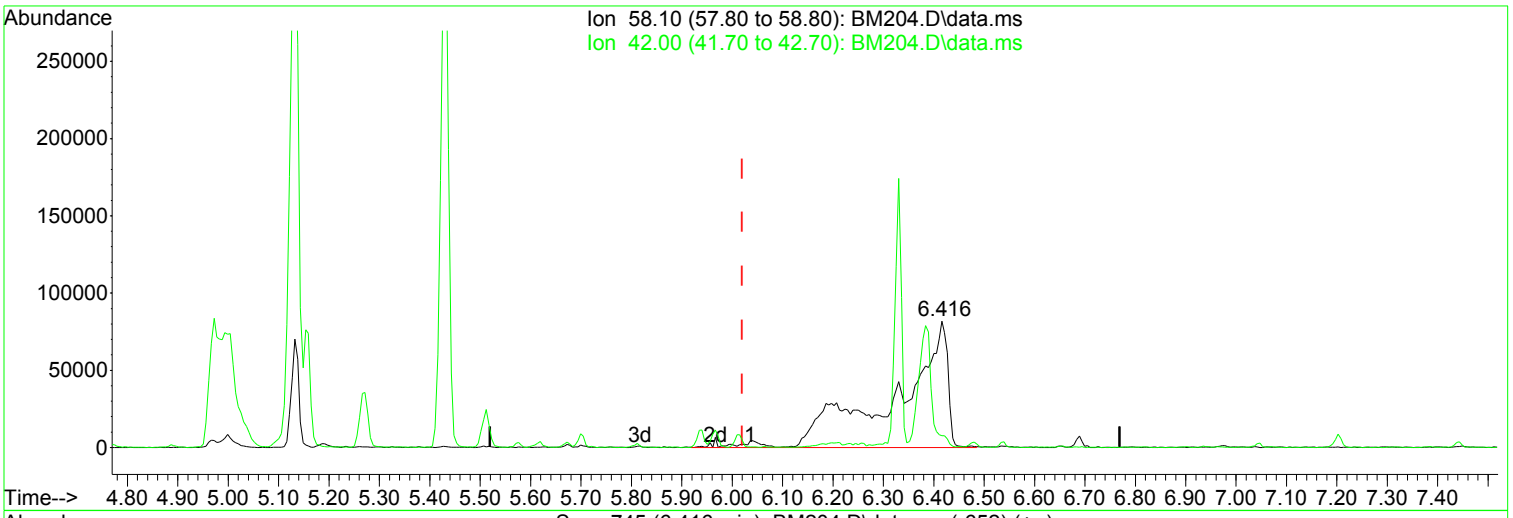
Before

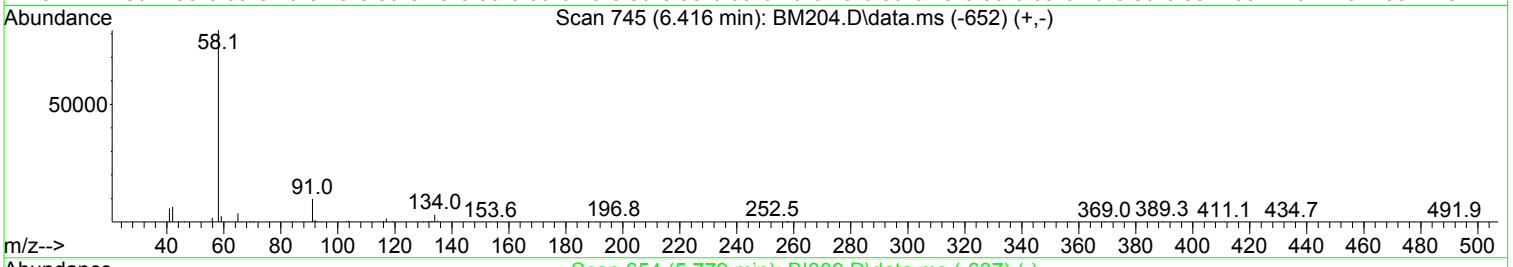
10/26/17

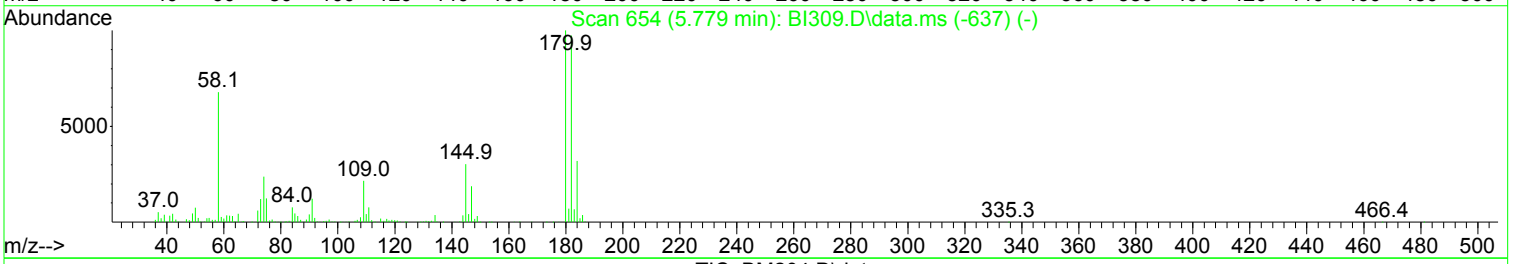
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM204.D
Acq On : 26 Oct 2017 1:41 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 14:10:08 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM204.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.416min (+ 0.396) 76.01 ppm m

response 588522

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	9.36
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

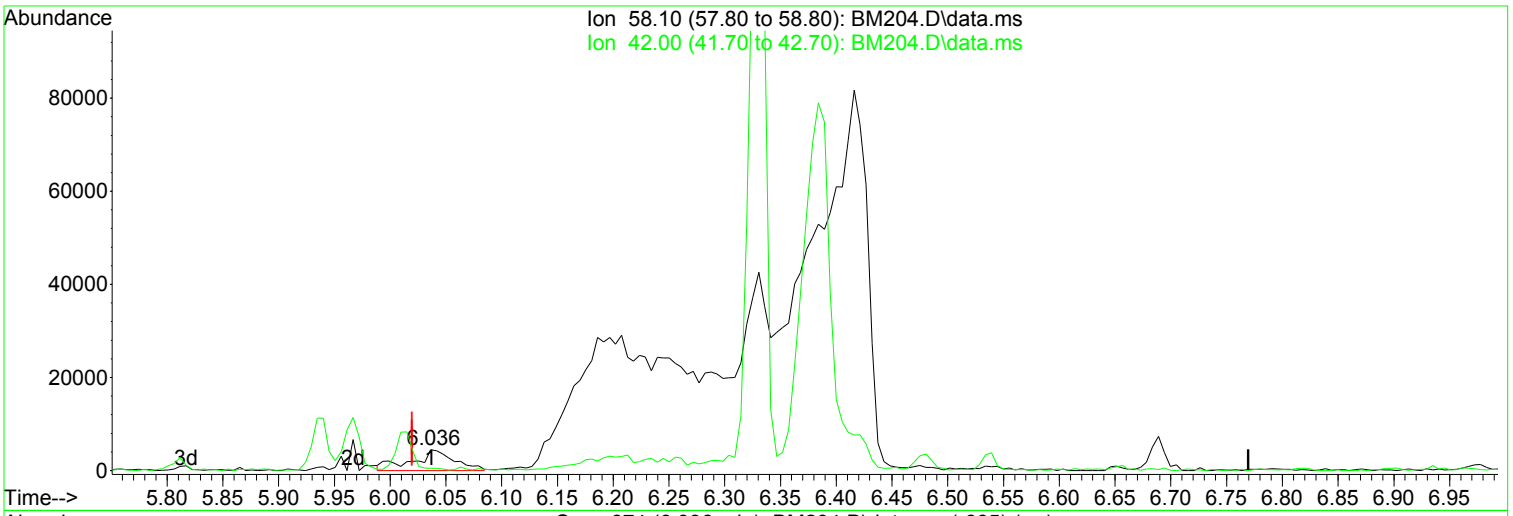
Poor integration.

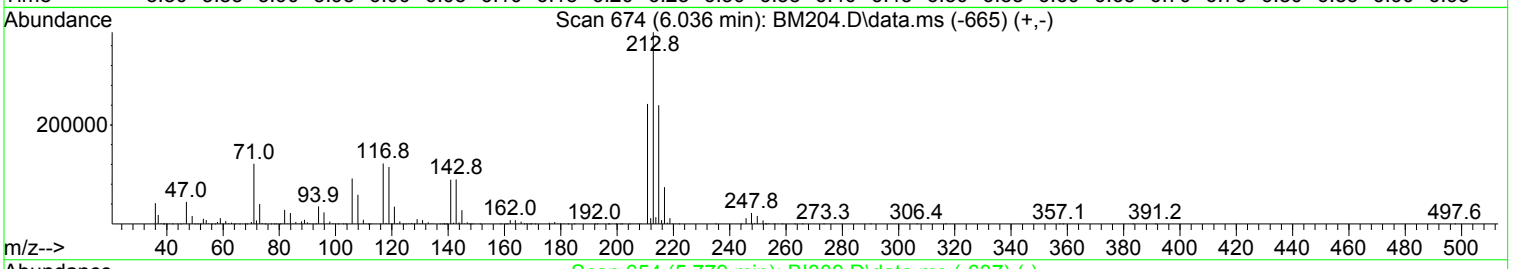
10/26/17

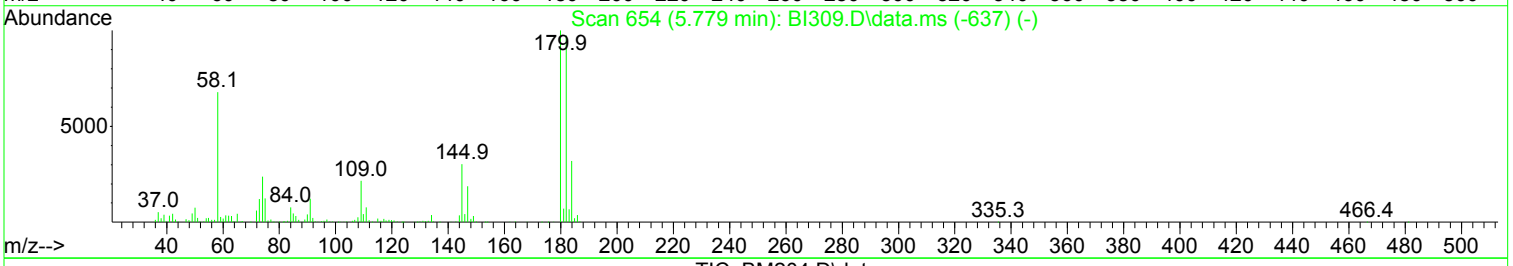
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM204.D
Acq On : 26 Oct 2017 1:41 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 14:10:08 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM204.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.036min (+ 0.017) 1.52 ppm

response 11730

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	5.72
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM204.D
Acq On : 26 Oct 2017 1:41 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 14:10:08 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) d4-1,4-Dichlorobenzene	4.774	152	102371	40.00	ppm		0.00
33) d8-Naphthalene	5.940	136	399116	40.00	ppm		0.00
57) d10-Acenaphthene	7.641	164	186302	40.00	ppm		0.00
91) d10-Phenanthrene	9.117	188	355029	40.00	ppm		0.00
117) d12-Chrysene	12.391	240	339699	40.00	ppm		0.01
135) d12-Perylene	15.311	264	340257	40.00	ppm		0.00
System Monitoring Compounds							
7) SURR1,2-FLUOROPHENOL	3.710	112	534703	158.35	ppm		0.00
Spiked Amount 200.000	Range 10 - 105		Recovery = 79.17%				
12) SURR2,PHENOL-D6	4.442	99	650453	161.49	ppm		0.00
Spiked Amount 200.000	Range 10 - 107		Recovery = 80.75%				
34) SURR4,NITROBENZENE-D5	5.271	82	572957	160.26	ppm		0.00
Spiked Amount 100.000	Range 37 - 117		Recovery = 160.26%#				
63) SURR5,2-FLUOROBIPHENYL	6.983	172	1107913	158.55	ppm		0.00
Spiked Amount 100.000	Range 39 - 119		Recovery = 158.55%#				
88) SURR3,2,4,6-TRIBROMOPH...	8.427	330	208693	170.41	ppm		0.00
Spiked Amount 200.000	Range 28 - 157		Recovery = 85.20%				
124) SURR6,TERPHENYL-D14	10.807	244	1208448	159.08	ppm		0.00
Spiked Amount 100.000	Range 40 - 133		Recovery = 159.08%#				
Target Compounds							Qvalue
2) Pyridine	2.768	79	541322	164.029	ppm		99
3) N-Nitrosodimethylamine	2.736	74	309607	177.431	ppm		91
4) 2-Picoline	3.292	93	569102	163.143	ppm		99
5) N-Nitrosomethylamine	3.362	42	290267	154.517	ppm		95
6) Methyl Methansulfonate	3.592	80	281503	160.557	ppm		98
8) N-Nitrosodiethylamine	3.892	102	250172	163.777	ppm		87
9) Ethyl Mathanesulfonate	4.122	79	396047	162.434	ppm		96
11) Aniline	4.496	93	848262	159.764	ppm		99
13) Phenol	4.453	94	661702	157.512	ppm		97
14) bis(2-Clethyl)Ether	4.539	93	535102	161.375	ppm		100
15) Pentachloroethane	4.539	117	198536	158.421	ppm		98
16) 2-Chlorophenol	4.598	128	558852	160.792	ppm		99
17) 1,3-Diclbenzene	4.726	146	581151	153.669	ppm		94
18) 1,4-Dichlorobenzene	4.790	146	596874	156.374	ppm		98
19) 1,2-Diclbenzene	4.924	146	569287	157.158	ppm		99
20) Benzyl Alcohol	4.892	79	464837	162.482	ppm		98
21) 1-Methyl-2-pyrrolidinone	4.972	99	314461	148.626	ppm		95
22) 2,2'-oxybis(1-Chloropr...	5.004	45	750938	156.240	ppm		95
23) 2-Methylphenol	4.988	108	460331	156.135	ppm		92
24) 3+4-Methylphenol	5.132	108	517278	159.505	ppm	#	78
25) Acetophenone	5.127	105	723095	155.262	ppm		87
26) N-Nitroso-Di-n-propyla...	5.132	70	405030	159.273	ppm		84
27) N-Nitrosopyrrolidine	5.127	100	274774	160.229	ppm	#	13
28) N-Nitrosomorpholine	5.154	56	329499	154.056	ppm		95
29) o-Toluidine	5.165	106	801663	156.818	ppm		66
30) Hexachloroethane	5.223	117	249265	156.711	ppm		99
31) o,o,o-Triethylphosphor...	5.673	198	235394	161.942	ppm		95
32) Alpha-terpinol	5.967	121	208198	160.598	ppm		98
35) Nitrobenzene	5.288	77	630965	158.334	ppm		99
36) N-Nitrosopiperidine	5.432	42	370631	157.128	ppm		99
37) Isophorone	5.512	82	1114773	154.687	ppm		99
38) 2-Nitrophenol	5.576	139	293593	162.749	ppm		99
39) Benzoic Acid	5.731	105	338687	180.384	ppm		96

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM204.D
Acq On : 26 Oct 2017 1:41 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 26 14:10:08 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 2,4-Dimethylphenol	5.619	107	538945	157.395	ppm		94
41) bis(-2-Chloroethoxy)Me...	5.699	93	659080	152.946	ppm		98
42) 2,4-Dichlorophenol	5.812	162	436950	155.675	ppm		98
43) a,a-Dimethylphenethyla...	6.416	58	588522m	76.014	ppm		
44) 1,2,4-Trichlorobenzene	5.881	180	482278	151.322	ppm		95
45) Naphthalene	5.961	128	1524493	150.133	ppm		100
46) 4-Chloroaniline	6.015	127	642624	150.955	ppm		97
47) 2,6-Dichlorophenol	6.020	162	427682	151.444	ppm		96
48) Hexachlorobutadiene	6.068	225	279874	154.158	ppm		98
49) Hexachloropropene	6.036	213	352073	163.012	ppm		99
50) 4-Chloro-3-methylphenol	6.480	107	433529	156.951	ppm		98
51) N-N-di-n-butylamine	6.331	84	345090	138.159	ppm		96
52) Caprolactam	6.389	113	150514	158.973	ppm		89
54) Safrole	6.539	162	400908	153.344	ppm		99
55) 2-Methylnaphthalene	6.625	142	1028413	152.316	ppm		95
56) 1-Methylnaphthalene	6.721	142	927993	151.497	ppm		95
58) Hexachlorocyclopentadiene	6.774	237	315166	169.348	ppm		95
59) 1,2,4,5-Tetrachloroben...	6.785	216	478164	158.492	ppm		99
60) 1,2,3,4-Tetrachloroben...	7.063	216	430988	159.012	ppm		94
61) 2,4,6-Trichlorophenol	6.897	196	309257	159.968	ppm		100
62) 2,4,5-Trichlorophenol	6.940	196	312640	162.268	ppm		98
64) Isosafrole	7.042	104	195111	161.845	ppm		95
65) 1,1'-Biphenyl	7.079	154	1208870	157.638	ppm		98
66) 2-Chloronaphthalene	7.101	162	949664	158.618	ppm		98
67) 2-Nitroaniline	7.202	65	274982	167.034	ppm		97
68) 1,4-Naphthoquinone	7.277	158	115529	180.861	ppm		97
69) m-Dinitrobenzene	7.416	168	168515	180.641	ppm	#	67
70) Acenaphthylene	7.507	152	1504211	159.721	ppm		99
71) Dimethyl phthalate	7.390	163	1045201	161.265	ppm		98
72) 2,6-Dinitrotoluene	7.443	165	272996	170.417	ppm		87
73) Acenaphthene	7.678	153	977098	156.569	ppm		97
74) 3-Nitroaniline	7.614	138	287536	180.290	ppm		97
75) 2,4-Dinitrophenol	7.716	184	148517	154.521	ppm		89
76) Dibenzofuran	7.850	168	1266022	151.818	ppm		98
77) 2,4-Dinitrotoluene	7.844	165	375012	155.706	ppm		91
78) 4-Nitrophenol	7.780	65	232735	169.274	ppm		94
79) Pentachlorobenzene	7.807	250	396552	149.146	ppm		100
80) 1-Napthylamine	7.930	143	757144	156.414	ppm		97
81) 2-Napthylamine	8.010	143	809983	156.234	ppm		97
82) 2,3,4,6-Tetrachlorophenol	7.967	232	265934	178.778	ppm		96
83) Fluorene	8.186	166	1060564	155.917	ppm		100
84) 4-Chlorophenyl-phenyle...	8.186	204	530991	148.882	ppm		96
85) Diethylphthalate	8.080	149	1112613	160.387	ppm		99
86) 4-Nitroaniline	8.224	138	288073	161.352	ppm		96
87) 5-Nitro-o-toluidine	8.213	152	323221	174.178	ppm		99
89) Sulfotepp	8.459	322	187088	169.524	ppm		81
90) Octachlorocyclopentene	8.433	307	195187	166.500	ppm		98
92) Thionazin	8.165	107	170382	156.420	ppm		89
93) 4,6-Dinitro-2-methylph...	8.245	198	203752	158.581	ppm		94
94) Diphenylamine	8.309	169	1642849	313.706	ppm		98
95) 1,2 Diphenylhydrazine	8.342	77	1096497	151.132	ppm		98
96) N-Nitrosodiphenylamine	8.309	169	1642849	313.698	ppm		98
97) 1,3,5-Trinirobenzene	8.593	213	105500	183.966	ppm	#	1
98) Diallate	8.588	86	383423	158.637	ppm		92
99) Phorate	8.598	121	197839	160.606	ppm		87
100) Phenacetin	8.636	108	557857	161.343	ppm		96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM204.D
Acq On : 26 Oct 2017 1:41 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

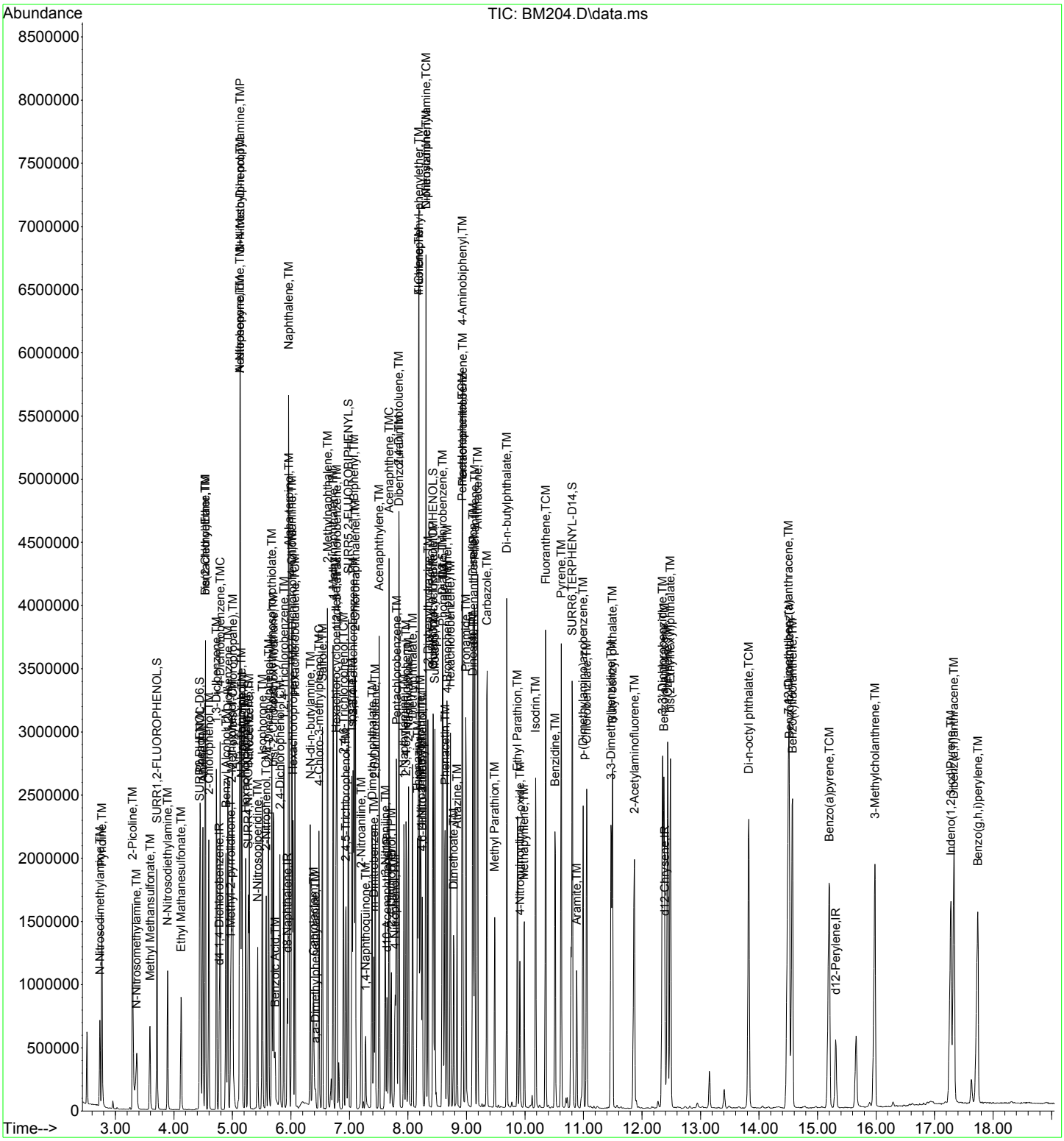
Quant Time: Oct 26 14:10:08 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 4-Bromophenyl-phenylether	8.673	248	336418	151.100	ppm	98
102) Hexachlorobenzene	8.727	284	368356	152.153	ppm	99
103) Dimethoate	8.780	87	272812	128.157	ppm	98
104) Atrazine	8.839	215	104870	165.920	ppm	89
105) Pentachlorophenol	8.925	266	240958	157.357	ppm	97
106) 4-Aminobiphenyl	8.930	169	948074	162.331	ppm	99
107) Pentachloronitrobenzene	8.935	237	147592	171.043	ppm	95
108) Pronamide	8.989	173	493089	164.819	ppm	98
109) Dinoseb	9.106	211	273861	182.559	ppm	98
110) Disulfoton	9.112	88	431652	154.349	ppm	95
111) Phenanthrene	9.139	178	1485951	155.510	ppm	98
112) Anthracene	9.192	178	1494642	158.403	ppm	99
113) Carbazole	9.352	167	1430372	151.342	ppm	99
114) Di-n-butylphthalate	9.689	149	1924474	158.163	ppm	99
115) 4-Nitroquinonline-1-oxide	9.914	190	128248	172.107	ppm	98
116) Fluoranthene	10.353	202	1652906	158.346	ppm	98
118) Methyl Parathion	9.481	109	246228	153.973	ppm	94
119) Ethyl Parathion	9.871	97	219971	166.850	ppm	97
120) Methapyrilene	9.984	58	418244	153.130	ppm	93
121) Isodrin	10.182	193	173094	172.964	ppm	93
122) Benzidine	10.513	184	957246	152.454	ppm	98
123) Pyrene	10.620	202	1654135	160.855	ppm	99
125) Aramite	10.882	185	200433m	156.528	ppm	
126) p-(Dimethylamino)azobe...	10.995	120	469374	165.231	ppm	97
127) Chlorobenzilate	11.053	139	563386	168.215	ppm	91
128) Butyl benzyl phthalate	11.497	149	844381	165.858	ppm	98
129) 3,3-Dimethylbenzidine	11.471	212	953686	159.742	ppm	97
130) 2-Acetylaminofluorene	11.872	181	712736	171.940	ppm	97
131) 3,3'-Dichlorobenzidine	12.348	252	695500	163.745	ppm	97
132) Benzo(a)anthracene	12.374	228	1589923	159.689	ppm	99
133) Chrysene	12.439	228	1525703	159.325	ppm	98
134) bis(2-Ethylhexyl)phtha...	12.487	149	1211356	162.331	ppm	98
136) Di-n-octyl phthalate	13.824	149	1992331	170.074	ppm	100
137) 7,12-Dimethylbenz(a)an...	14.503	256	757784	171.667	ppm	98
138) Benzo(b)Fluoranthene	14.519	252	1729249	169.032	ppm	96
139) Benzo(k)fluoranthene	14.573	252	1652112	168.114	ppm	96
140) Benzo(a)pyrene	15.204	252	1506259	168.252	ppm	99
141) 3-Methylcholanthrene	15.979	268	856429	166.396	ppm	99
142) Indeno(1,2,3-cd)Pyrene	17.279	276	1352512	151.363	ppm	99
143) Dibenz(a,h)anthracene	17.333	278	1526193	161.800	ppm	98
144) Benzo(g,h,i)perylene	17.739	276	1270992	145.906	ppm	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM204.D
Acq On : 26 Oct 2017 1:41 pm
Operator : J.Misiurewicz
Sample : 160 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 11 Sample Multiplier: 1

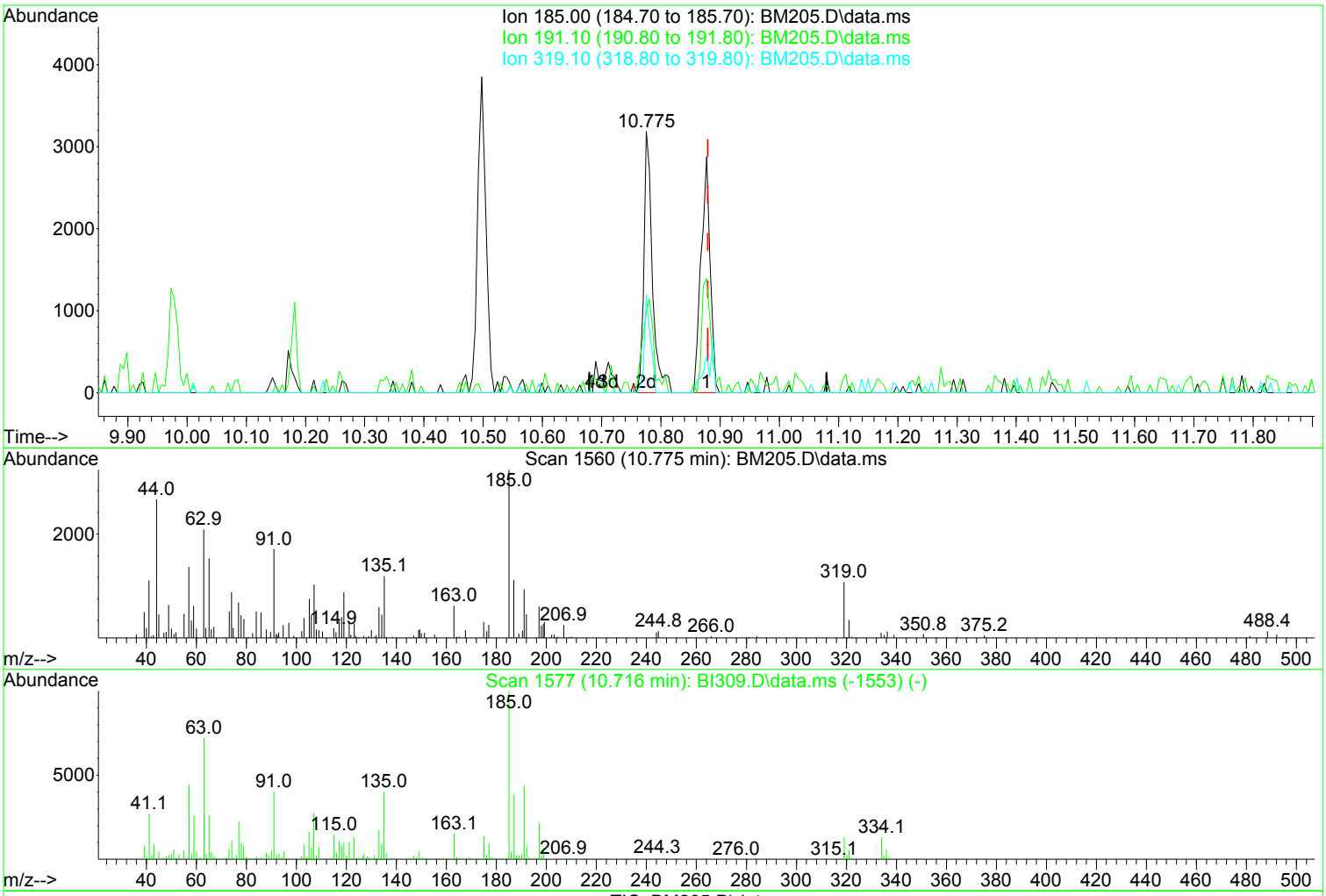
Quant Time: Oct 26 14:10:08 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM205.D
Acq On : 26 Oct 2017 2:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 14:27:06 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration



TIC: BM205.D\data.ms

(125) Aramite (TM)

10.775min (-0.105) 5.37 ppm m

response 6293

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	30.58
319.10	22.50	34.85
0.00	0.00	0.00

Manual Integration:

After

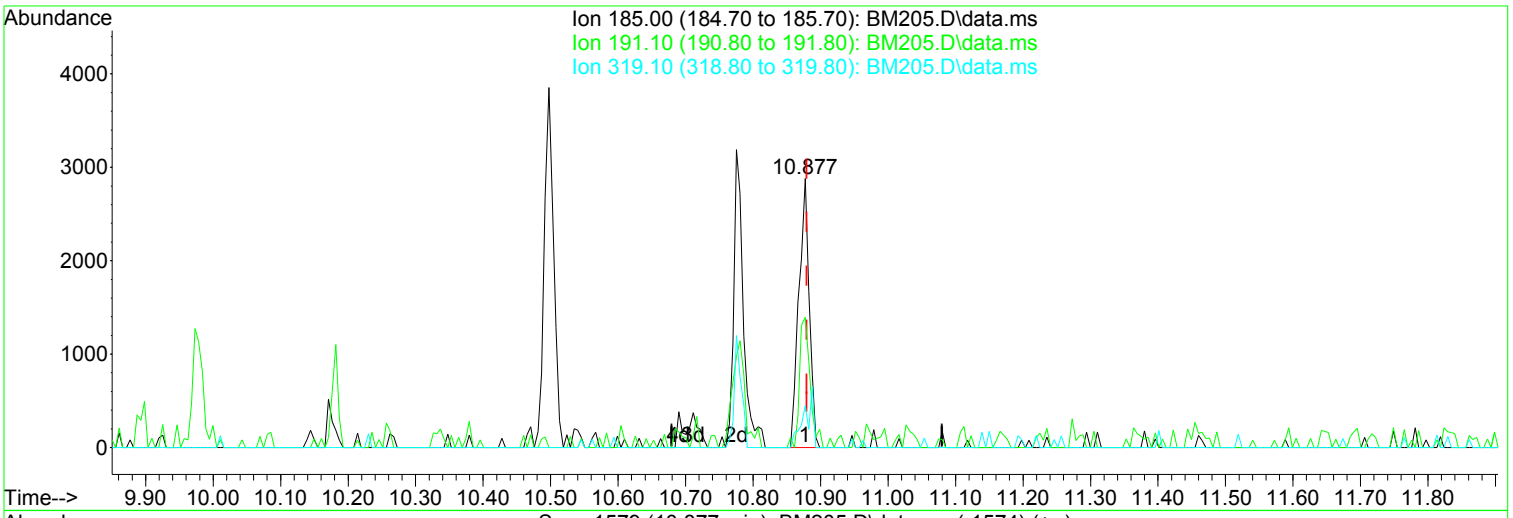
Split Peak.

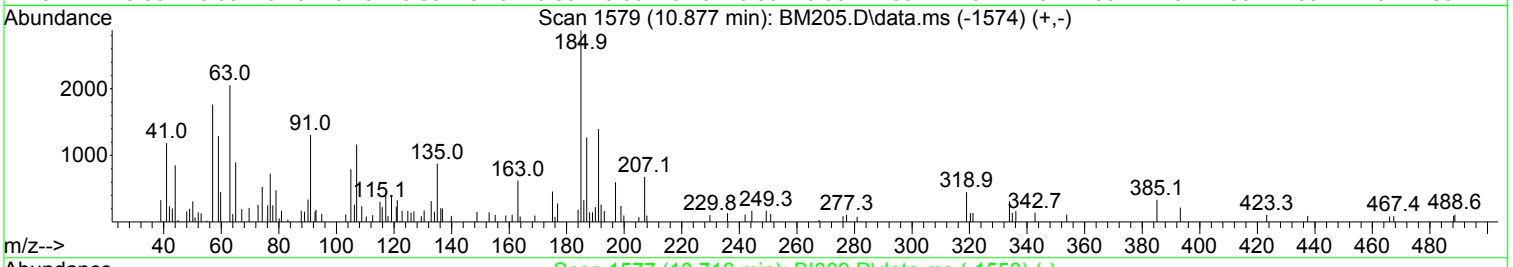
10/26/17

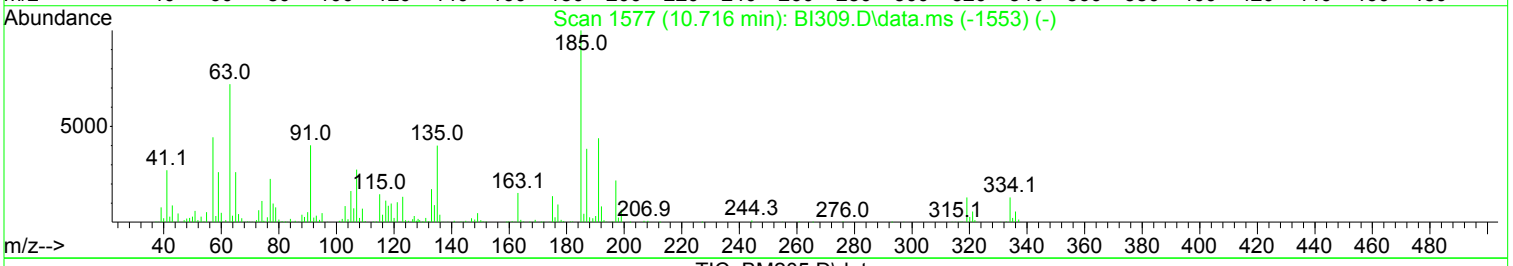
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM205.D
Acq On : 26 Oct 2017 2:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 14:27:06 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM205.D\data.ms

(125) Aramite (TM)

10.877min (-0.003) 2.64 ppm

response 3094

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	48.47
319.10	22.50	15.63
0.00	0.00	0.00

Manual Integration:

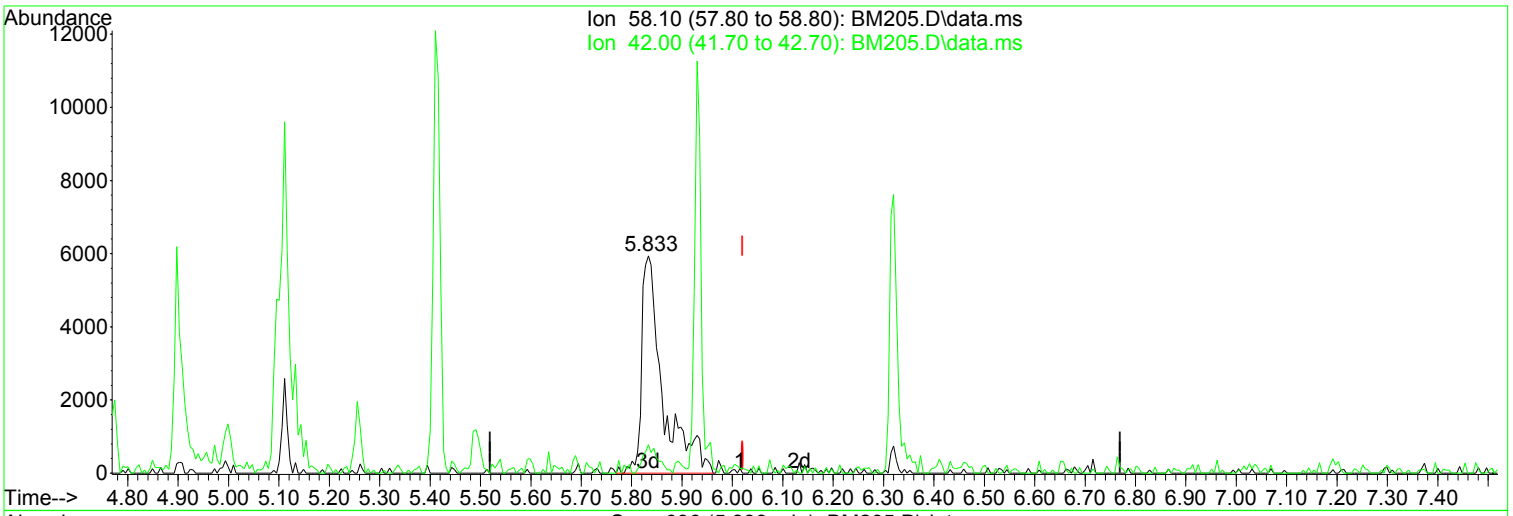
Before

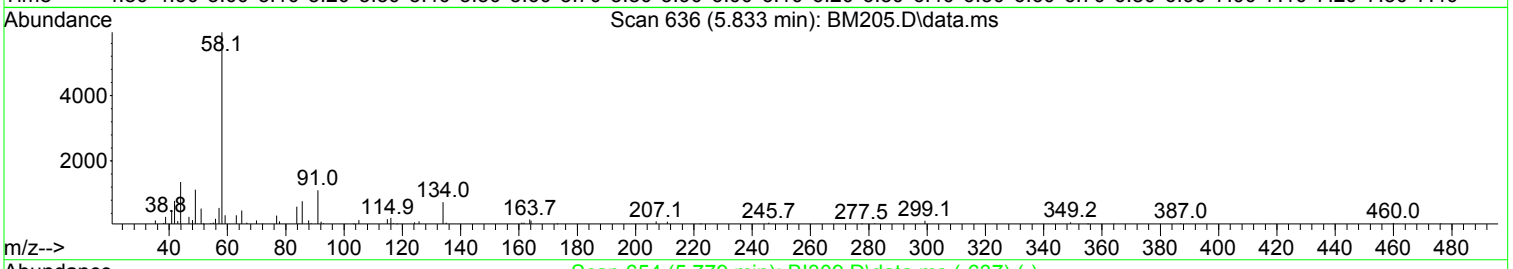
10/26/17

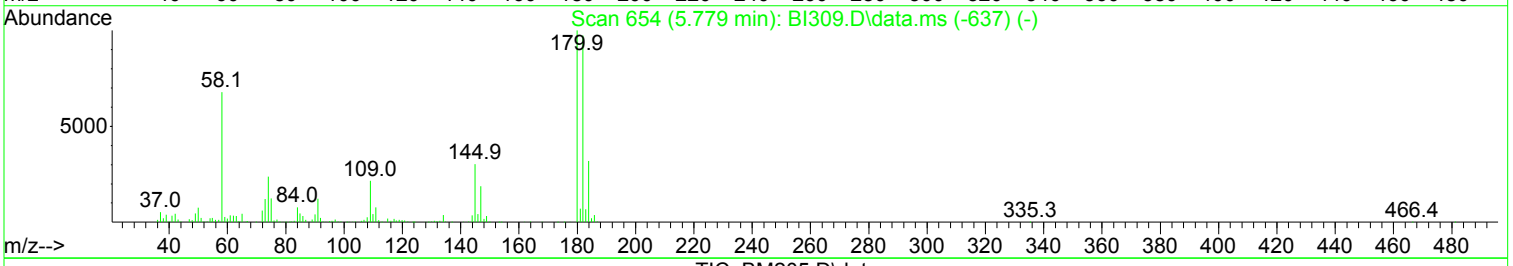
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM205.D
Acq On : 26 Oct 2017 2:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 14:27:06 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM205.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

5.833min (-0.186) 2.56 ppm m

response 17480

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	13.12
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

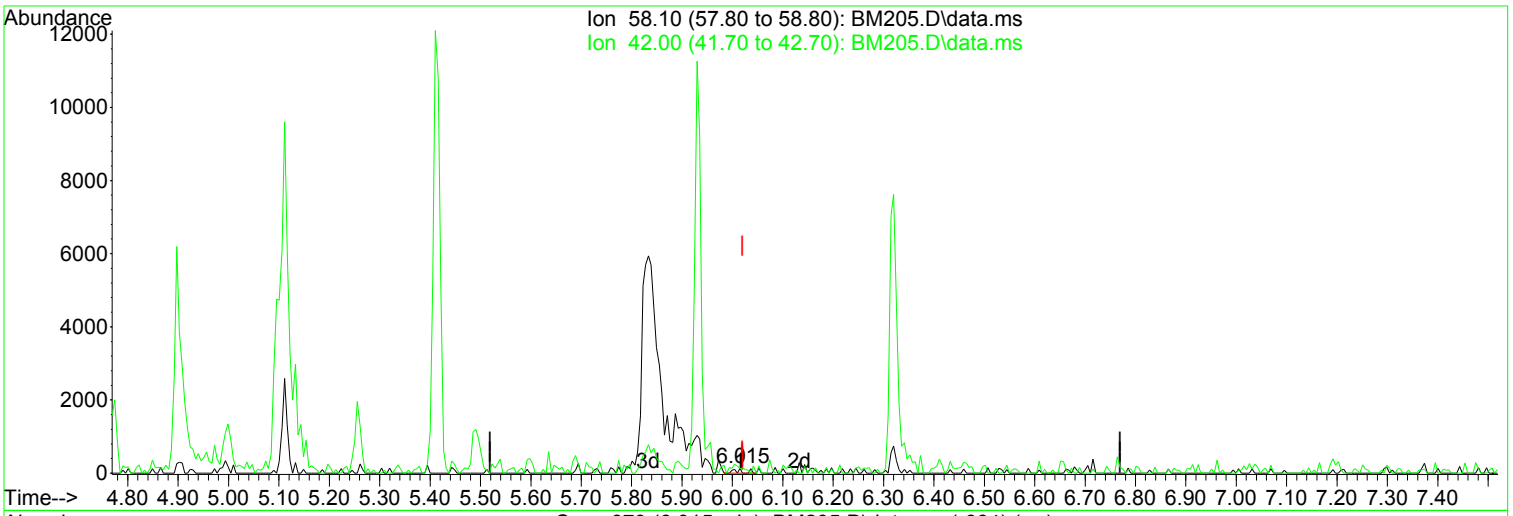
Peak not found.

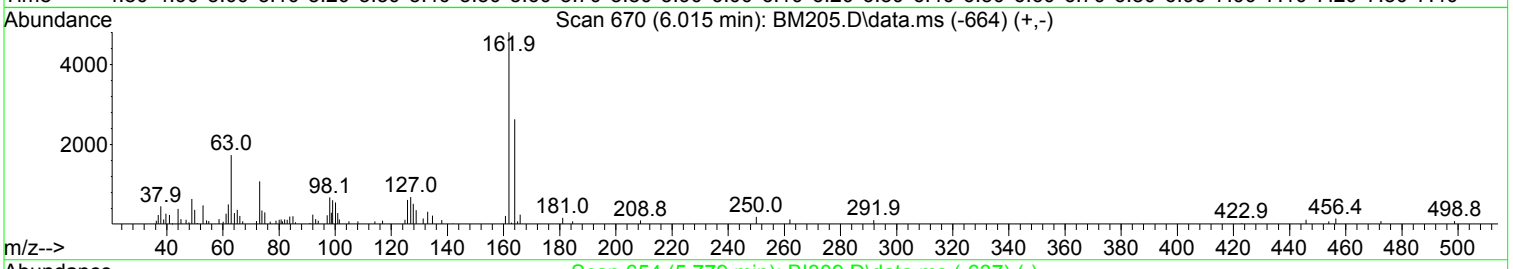
10/26/17

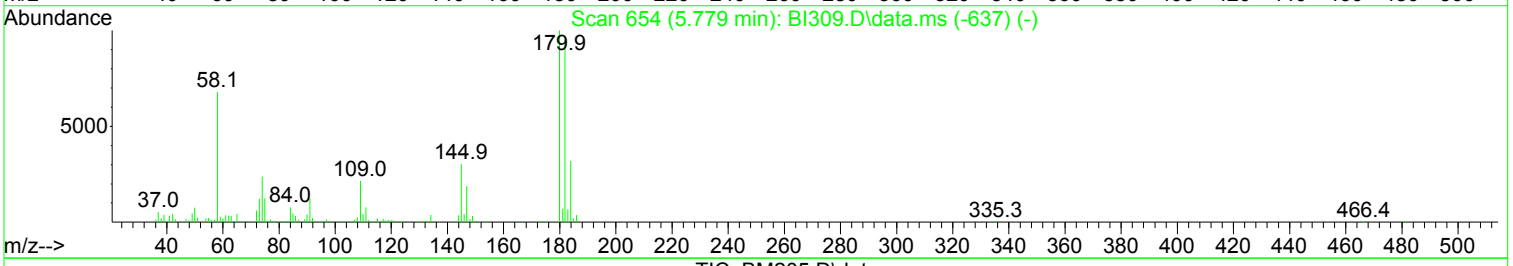
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM205.D
Acq On : 26 Oct 2017 2:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 14:27:06 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration







TIC: BM205.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.015min (-0.005) 0.02 ppm

response 145

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	10.37
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/26/17

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM205.D
Acq On : 26 Oct 2017 2:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 14:27:06 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) d4-1,4-Dichlorobenzene	4.774	152	91132	40.00	ppm	0.00
33) d8-Naphthalene	5.935	136	351370	40.00	ppm	0.00
57) d10-Acenaphthene	7.641	164	172395	40.00	ppm	0.00
91) d10-Phenanthrene	9.107	188	299729	40.00	ppm	0.00
117) d12-Chrysene	12.375	240	311067	40.00	ppm	0.00
135) d12-Perylene	15.295	264	351786	40.00	ppm	-0.01
System Monitoring Compounds						
7) SURR1,2-FLUOROPHENOL	3.705	112	16123	5.36	ppm	0.00
Spiked Amount 200.000	Range 10 - 105		Recovery =	2.68%#		
12) SURR2,PHENOL-D6	4.432	99	18311	5.11	ppm	0.00
Spiked Amount 200.000	Range 10 - 107		Recovery =	2.56%#		
34) SURR4,NITROBENZENE-D5	5.261	82	16319	5.18	ppm	0.00
Spiked Amount 100.000	Range 37 - 117		Recovery =	5.18%#		
63) SURR5,2-FLUOROBIPHENYL	6.973	172	32323	5.00	ppm	0.00
Spiked Amount 100.000	Range 39 - 119		Recovery =	5.00%#		
88) SURR3,2,4,6-TRIBROMOPH...	8.417	330	5867	5.18	ppm	0.00
Spiked Amount 200.000	Range 28 - 157		Recovery =	2.59%#		
124) SURR6,TERPHENYL-D14	10.797	244	36606	5.26	ppm	0.00
Spiked Amount 100.000	Range 40 - 133		Recovery =	5.26%#		
Target Compounds						Qvalue
2) Pyridine	2.779	79	15620	5.317	ppm	92
3) N-Nitrosodimethylamine	2.731	74	7669	4.937	ppm	90
4) 2-Picoline	3.298	93	17127	5.515	ppm	90
5) N-Nitrosomethylamine	3.362	42	10102	6.041	ppm	94
6) Methyl Methansulfonate	3.582	80	9376	6.007	ppm	94
8) N-Nitrosodiethylamine	3.886	102	8005	5.887	ppm	95
9) Ethyl Mathanesulfonate	4.111	79	11653	5.369	ppm	93
10) Benzaldehyde	4.405	106	9794	5.463	ppm	97
11) Aniline	4.485	93	24251	5.131	ppm	93
13) Phenol	4.443	94	18724	5.007	ppm	95
14) bis(2-Clethyl)Ether	4.534	93	15276	5.175	ppm	91
15) Pentachloroethane	4.534	117	5942	5.326	ppm	92
16) 2-Chlorophenol	4.587	128	16047	5.186	ppm	96
17) 1,3-Diclbenzene	4.726	146	17206	5.111	ppm	96
18) 1,4-Dichlorobenzene	4.785	146	17081	5.027	ppm	98
19) 1,2-Diclbenzene	4.919	146	17493	5.425	ppm	98
20) Benzyl Alcohol	4.876	79	12789	5.022	ppm	96
21) 1-Methyl-2-pyrrolidinone	4.897	99	9162	4.864	ppm	85
22) 2,2'-oxybis(1-Chloropr...	4.999	45	22927	5.358	ppm	96
23) 2-Methylphenol	4.967	108	13058	4.975	ppm	83
24) 3+4-Methylphenol	5.106	108	16369	5.670	ppm	88
25) Acetophenone	5.117	105	20393	4.919	ppm	95
26) N-Nitroso-Di-n-propyla...	5.111	70	12256	5.414	ppm	91
27) N-Nitrosopyrrolidine	5.101	100	6974	4.568	ppm	93
28) N-Nitrosomorpholine	5.133	56	9429	4.952	ppm	96
29) o-Toluidine	5.149	106	23797	5.229	ppm	94
30) Hexachloroethane	5.224	117	7276	5.139	ppm	91
31) o,o,o-Triethylphosphor...	5.662	198	6713	5.188	ppm	97
32) Alpha-terpinol	5.956	121	6277	5.439	ppm	85
35) Nitrobenzene	5.277	77	18662	5.319	ppm	91
36) N-Nitrosopiperidine	5.411	42	11414	5.496	ppm	87
37) Isophorone	5.491	82	33378	5.261	ppm	96
38) 2-Nitrophenol	5.571	139	7262	4.573	ppm	98

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM205.D
Acq On : 26 Oct 2017 2:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 14:27:06 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) Benzoic Acid	5.646	105	4720	2.855	ppm		87
40) 2,4-Dimethylphenol	5.598	107	15301	5.076	ppm		98
41) bis(-2-Chloroethoxy)Me...	5.689	93	18742	4.940	ppm		97
42) 2,4-Dichlorophenol	5.796	162	12875	5.210	ppm		95
43) a,a-Dimethylphenethyla...	5.833	58	17480m	2.565	ppm		
44) 1,2,4-Trichlorobenzene	5.876	180	15474	5.515	ppm		90
45) Naphthalene	5.951	128	45727	5.115	ppm		95
46) 4-Chloroaniline	5.999	127	18466	4.927	ppm		92
47) 2,6-Dichlorophenol	6.004	162	12563	5.053	ppm		89
48) Hexachlorobutadiene	6.063	225	7691	4.812	ppm		100
49) Hexachloropropene	6.037	213	9087	4.779	ppm		92
50) 4-Chloro-3-methylphenol	6.464	107	12588	5.177	ppm		87
51) N-N-di-n-butylamine	6.320	84	13823	6.286	ppm		91
52) Caprolactam	6.320	113	4463	5.354	ppm	#	29
53) p-Phenylenediamine	6.341	80	15421	10.654	ppm		88
54) Safrole	6.529	162	10626	4.617	ppm		84
55) 2-Methylnaphthalene	6.620	142	31310	5.267	ppm		96
56) 1-Methylnaphthalene	6.716	142	27527	5.104	ppm		99
58) Hexachlorocyclopentadiene	6.769	237	8394	4.874	ppm		97
59) 1,2,4,5-Tetrachloroben...	6.780	216	14079	5.043	ppm		90
60) 1,2,3,4-Tetrachloroben...	7.058	216	12802	5.104	ppm		99
61) 2,4,6-Trichlorophenol	6.887	196	8996	5.029	ppm		88
62) 2,4,5-Trichlorophenol	6.930	196	8354	4.686	ppm		95
64) Isosafrole	7.037	104	6133	5.498	ppm		89
65) 1,1'-Biphenyl	7.074	154	36515	5.146	ppm		86
66) 2-Chloronaphthalene	7.090	162	29586	5.340	ppm		95
67) 2-Nitroaniline	7.192	65	7649	5.021	ppm	#	80
68) 1,4-Naphthoquinone	7.267	158	3158	5.343	ppm		86
69) m-Dinitrobenzene	7.400	168	3955	4.582	ppm		82
70) Acenaphthylene	7.502	152	45039	5.168	ppm		90
71) Dimethyl phthalate	7.368	163	31931	5.324	ppm		96
72) 2,6-Dinitrotoluene	7.427	165	7418	5.004	ppm		98
73) Acenaphthene	7.668	153	29508	5.110	ppm		95
74) 3-Nitroaniline	7.593	138	7022	4.758	ppm		96
75) 2,4-Dinitrophenol	7.695	184	1957	8.376	ppm		86
76) Dibenzofuran	7.839	168	38481	4.987	ppm		97
77) 2,4-Dinitrotoluene	7.823	165	8493	5.792	ppm		94
78) 4-Nitrophenol	7.764	65	5075	3.989	ppm	#	74
79) Pentachlorobenzene	7.796	250	12839	5.218	ppm		96
80) 1-Napthylamine	7.919	143	24351	5.436	ppm		93
81) 2-Napthylamine	7.994	143	24950	5.201	ppm		98
82) 2,3,4,6-Tetrachlorophenol	7.957	232	4950	3.596	ppm		91
83) Fluorene	8.176	166	31325	4.977	ppm		95
84) 4-Chlorophenyl-phenyle...	8.176	204	17717	5.368	ppm		97
85) Diethylphthalate	8.064	149	32168	5.011	ppm		94
86) 4-Nitroaniline	8.192	138	7864	4.760	ppm		79
87) 5-Nitro-o-toluidine	8.187	152	8535	4.970	ppm		99
89) Sulfotepp	8.454	322	5266	5.157	ppm		90
90) Octachlorocyclopentene	8.427	307	4765	4.393	ppm		87
92) Thionazin	8.144	107	4710	5.122	ppm		98
93) 4,6-Dinitro-2-methylph...	8.219	198	2951	6.267	ppm		74
94) Diphenylamine	8.294	169	47874	10.828	ppm		97
95) 1,2 Diphenylhydrazine	8.331	77	34531	5.638	ppm		92
96) N-Nitrosodiphenylamine	8.294	169	47874	10.828	ppm		97
97) 1,3,5-Trinirobenzene	8.550	213	1854	3.829	ppm		86
98) Diallate	8.577	86	11275	5.526	ppm		86

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM205.D
Acq On : 26 Oct 2017 2:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 26 14:27:06 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

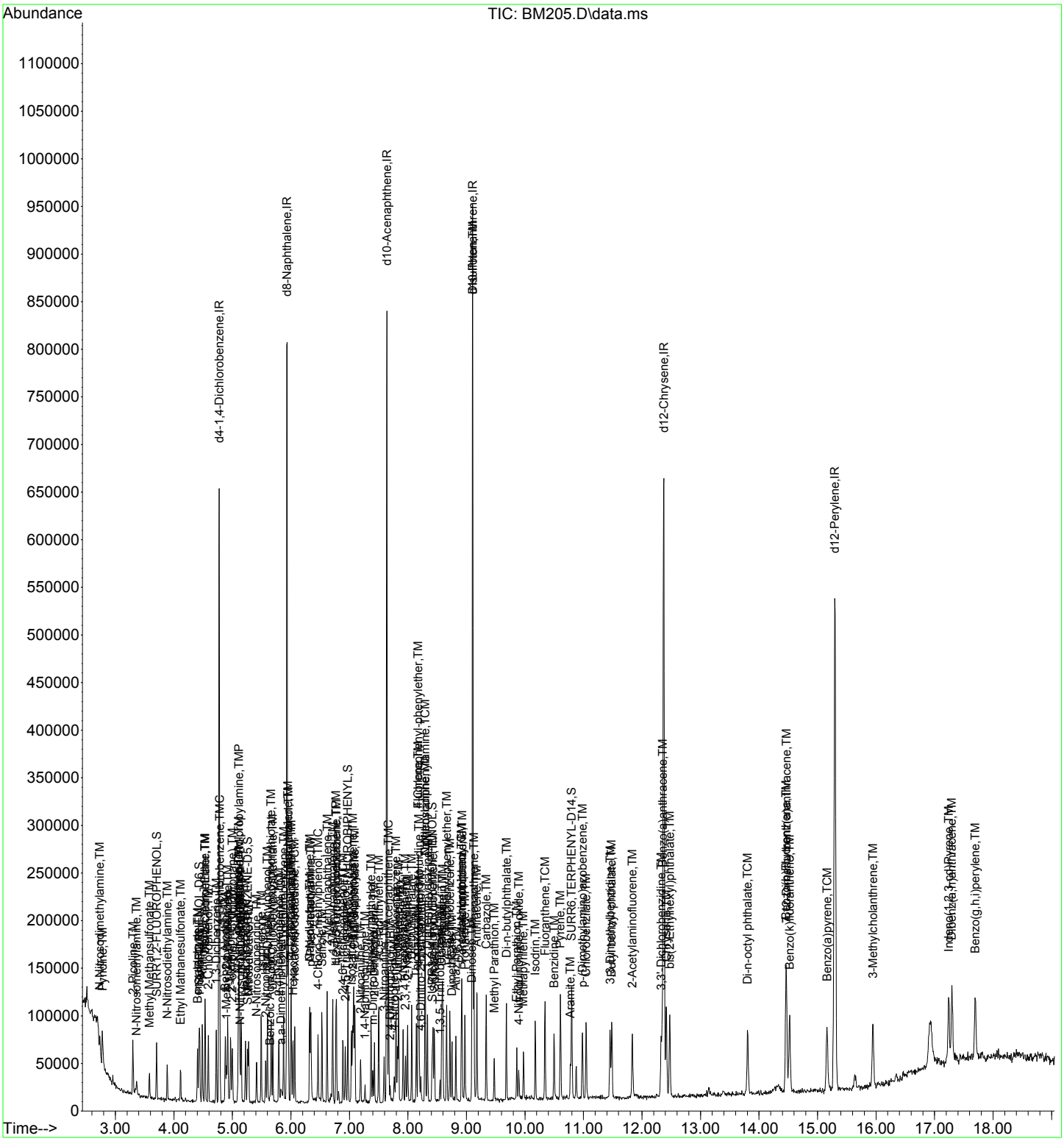
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
99) Phorate	8.588	121	4889	4.701	ppm	#	63
100) Phenacetin	8.593	108	15253	5.225	ppm		100
101) 4-Bromophenyl-phenylether	8.663	248	10228	5.441	ppm		98
102) Hexachlorobenzene	8.716	284	11252	5.505	ppm		90
103) Dimethoate	8.754	87	10102	5.621	ppm		94
104) Atrazine	8.818	215	3755	7.037	ppm	#	62
105) Pentachlorophenol	8.914	266	3693	6.253	ppm		95
106) 4-Aminobiphenyl	8.919	169	24053	4.878	ppm		95
107) Pentachloronitrobenzene	8.925	237	3337	4.581	ppm		82
108) Pronamide	8.973	173	12266	4.856	ppm		94
109) Dinoseb	9.091	211	3742	2.955	ppm		62
110) Disulfoton	9.107	88	13609	5.764	ppm		85
111) Phenanthrene	9.128	178	44794	5.553	ppm		92
112) Anthracene	9.176	178	43876	5.508	ppm		98
113) Carbazole	9.337	167	40032	5.017	ppm		95
114) Di-n-butylphthalate	9.684	149	48191	4.691	ppm		98
115) 4-Nitroquinonline-1-oxide	9.893	190	2533	4.026	ppm		81
116) Fluoranthene	10.342	202	42829	4.860	ppm		94
118) Methyl Parathion	9.476	109	7054	4.817	ppm		83
119) Ethyl Parathion	9.861	97	4890	4.051	ppm		84
120) Methapyrilene	9.973	58	13290	5.314	ppm		97
121) Isodrin	10.176	193	4653	5.077	ppm		93
122) Benzidine	10.497	184	29301	5.096	ppm		97
123) Pyrene	10.604	202	47967	5.094	ppm		96
125) Aramite	10.775	185	6293m	5.367	ppm		
126) p-(Dimethylamino)azobe...	10.984	120	13738	5.281	ppm		89
127) Chlorobenzilate	11.043	139	16895	5.509	ppm		88
128) Butyl benzyl phthalate	11.481	149	24295	5.211	ppm		95
129) 3,3-Dimethylbenzidine	11.455	212	27889	5.101	ppm		98
130) 2-Acetylaminofluorene	11.834	181	20381	5.369	ppm		97
131) 3,3'-Dichlorobenzidine	12.327	252	18610	4.785	ppm		94
132) Benzo(a)anthracene	12.353	228	46890	5.143	ppm		97
133) Chrysene	12.417	228	46844	5.342	ppm		96
134) bis(2-Ethylhexyl)phtha...	12.476	149	35622	5.213	ppm		96
136) Di-n-octyl phthalate	13.803	149	54542	4.503	ppm		98
137) 7,12-Dimethylbenz(a)an...	14.466	256	21525	4.716	ppm		96
138) Benzo(b)Fluoranthene	14.461	252	51320	4.852	ppm		95
139) Benzo(k)fluoranthene	14.525	252	49699	4.891	ppm		95
140) Benzo(a)pyrene	15.161	252	44442	4.802	ppm		98
141) 3-Methylcholanthrene	15.948	268	25233	4.742	ppm		93
142) Indeno(1,2,3-cd)Pyrene	17.242	276	44974	4.868	ppm		96
143) Dibenz(a,h)anthracene	17.295	278	48136	4.936	ppm		93
144) Benzo(g,h,i)perylene	17.697	276	43562	4.837	ppm		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM205.D
Acq On : 26 Oct 2017 2:10 pm
Operator : J.Misiurewicz
Sample : 5.0 ppm STD
Misc : Initial Calibration 8270D/625
ALS Vial : 12 Sample Multiplier: 1

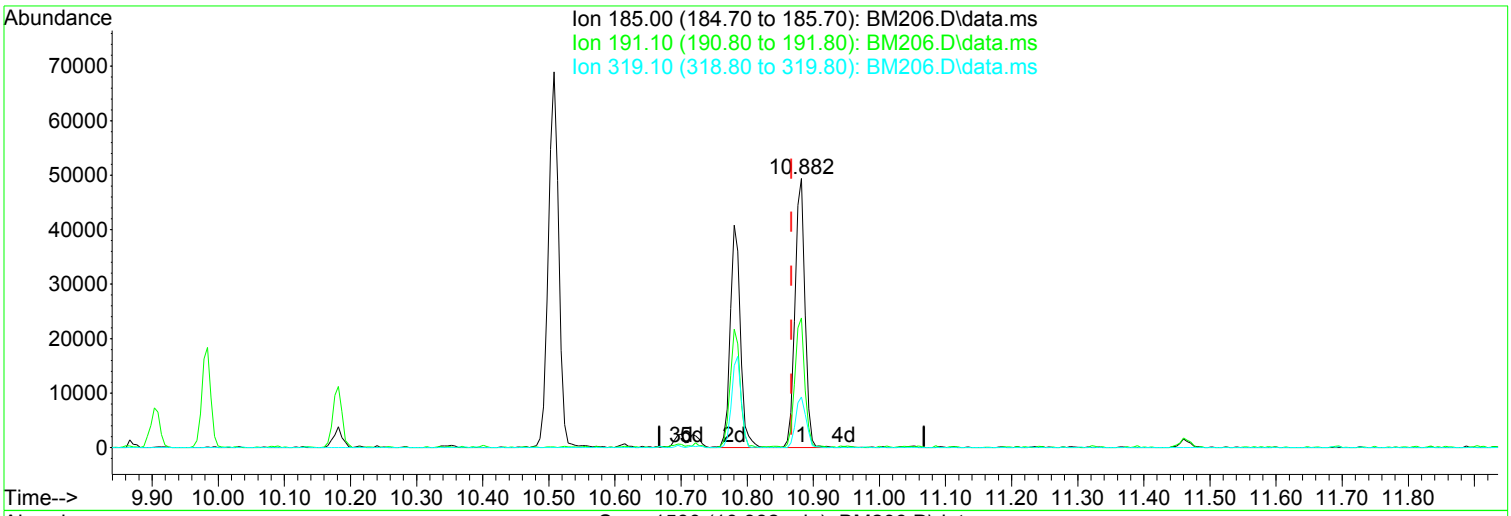
Quant Time: Oct 26 14:27:06 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:03:10 2017
Response via : Initial Calibration

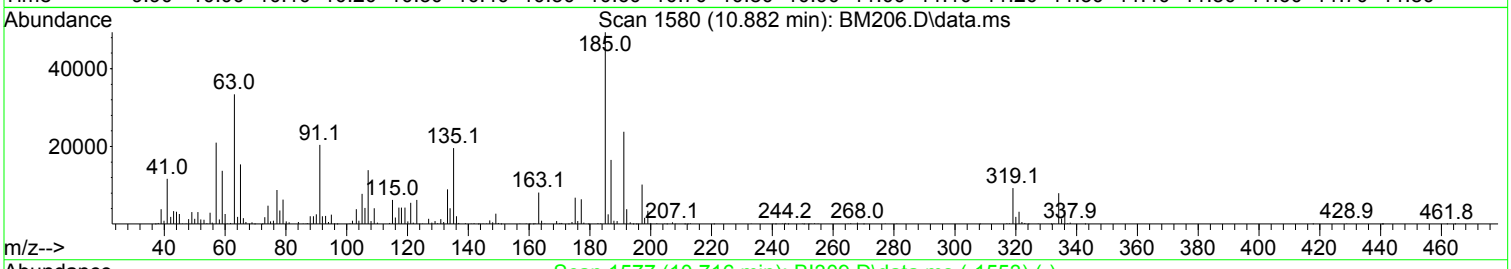


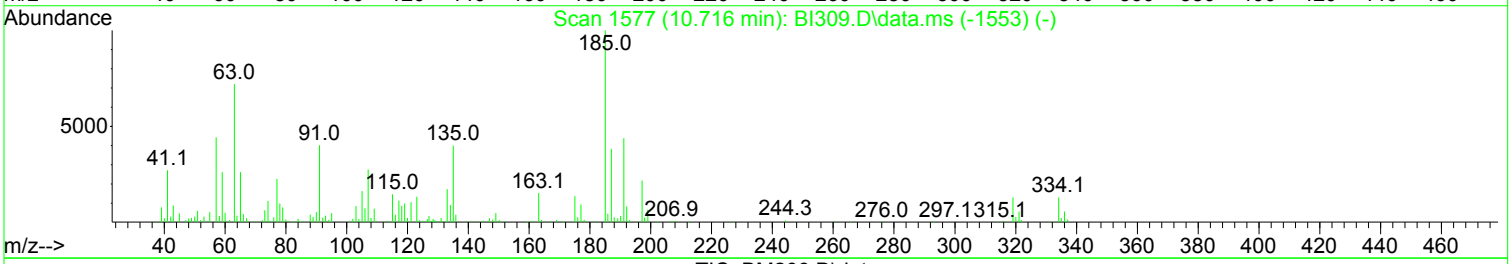
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration







TIC: BM206.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.015) 75.09 ppm m

response 94269

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	48.15
319.10	22.50	18.81
0.00	0.00	0.00

Manual Integration:

After

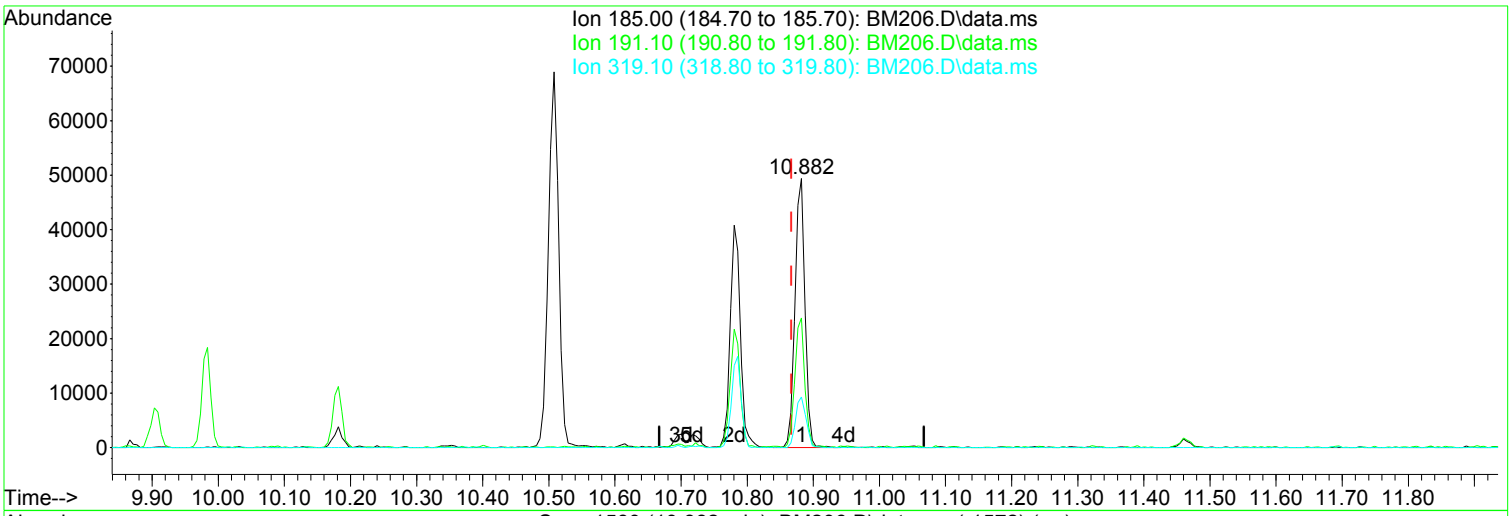
Poor integration.

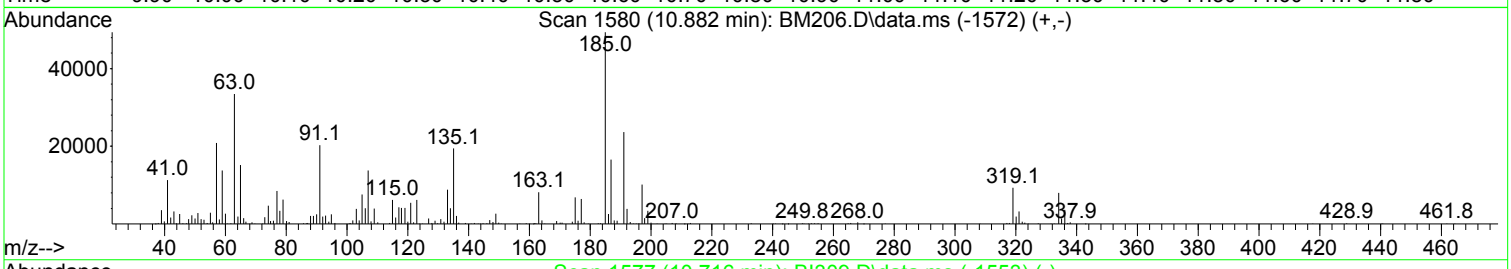
10/27/17

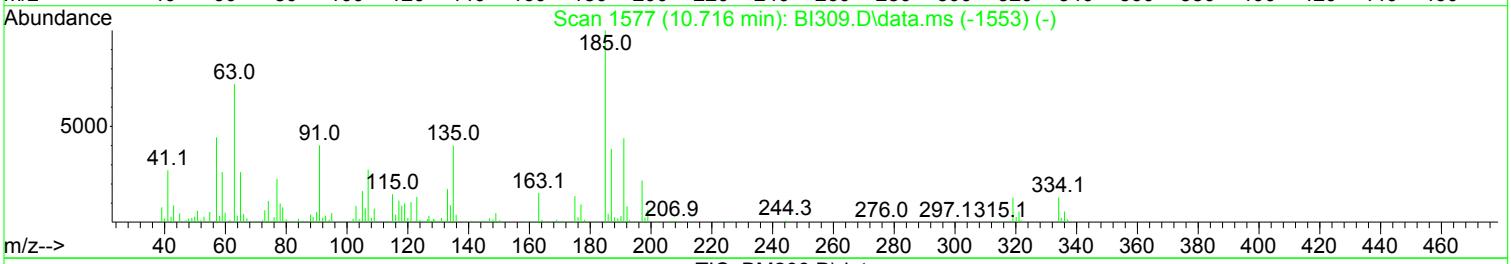
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration







TIC: BM206.D\data.ms

(125) Aramite (TM)

10.882min (+ 0.015) 40.54 ppm

response 50892

Ion	Exp%	Act%
185.00	100.00	100.00
191.10	51.80	47.88
319.10	22.50	18.81
0.00	0.00	0.00

Manual Integration:

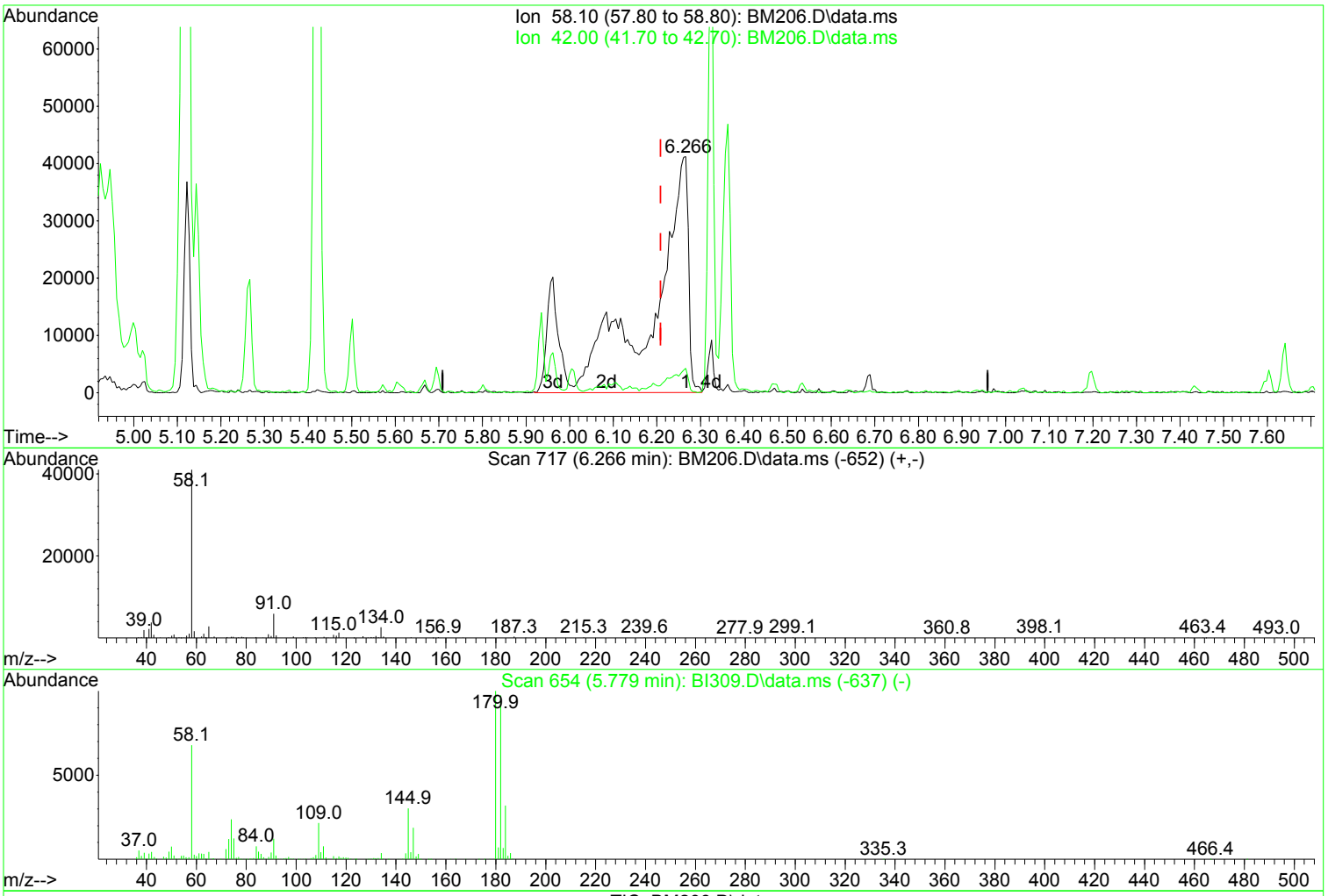
Before

10/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



TIC: BM206.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.266min (+ 0.057) 35.86 ppm m

response 265130

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	10.35
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

After

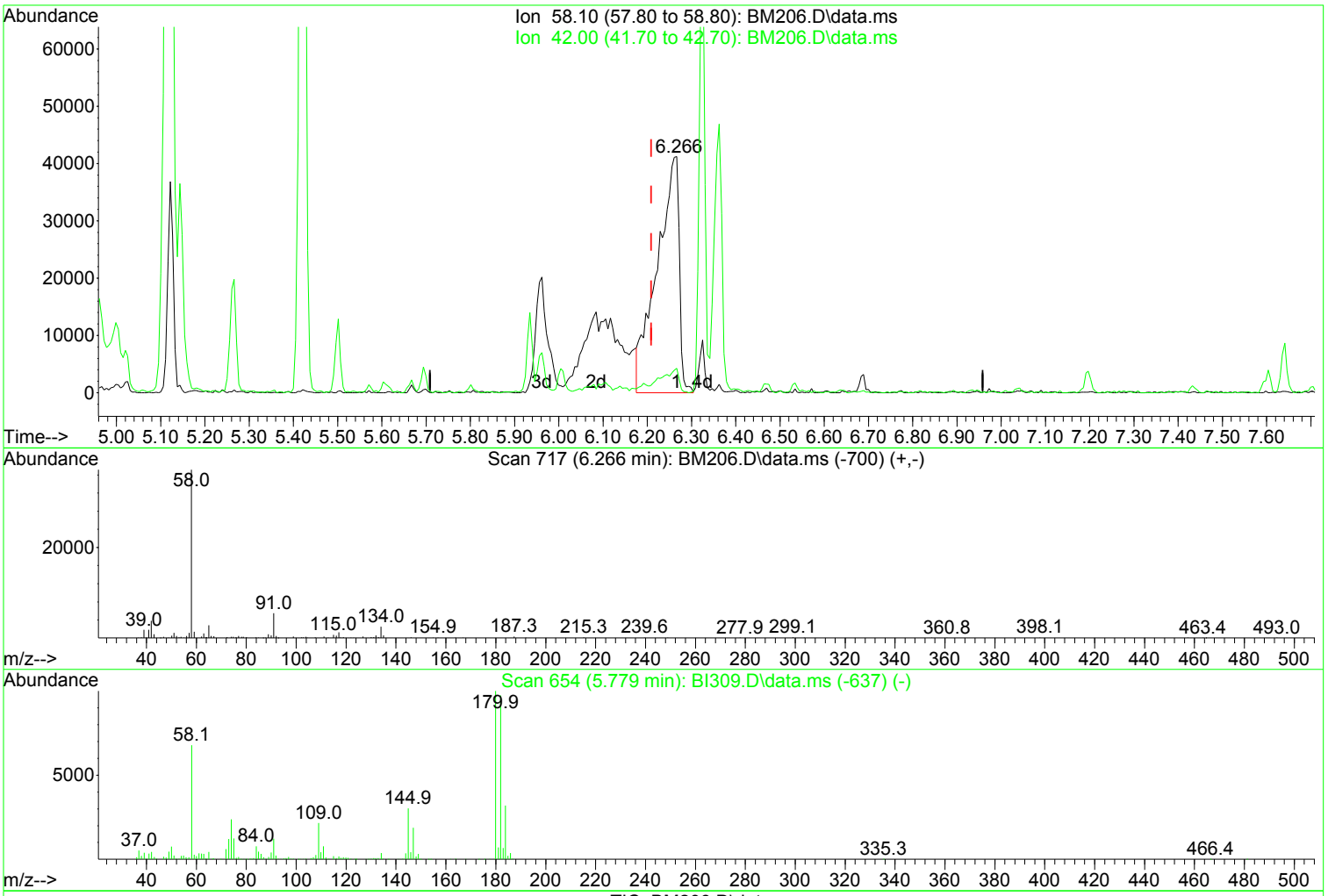
Poor integration.

10/27/17

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration



TIC: BM206.D\data.ms

(43) a,a-Dimethylphenethylamine (TM)

6.266min (+ 0.057) 19.31 ppm

response 142797

Ion	Exp%	Act%
58.10	100.00	100.00
42.00	8.90	10.20
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integration:

Before

10/27/17

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	IR	d4-1,4-Dichlorobenzene	40.000	40.000	0.0	110	0.00
2	TM	Pyridine	80.000	75.582	5.5	99	0.00
3	TM	N-Nitrosodimethylamine	80.000	77.173	3.5	102	0.00
4	TM	2-Picoline	80.000	77.012	3.7	105	0.00
5	TM	N-Nitrosomethylamine	80.000	71.703	10.4	100	0.00
6	TM	Methyl Methansulfonate	80.000	78.980	1.3	106	0.00
7	S	SURR1,2-FLUOROPHENOL	80.000	75.086	6.1	102	0.00
8	TM	N-Nitrosodiethylamine	80.000	75.453	5.7	102	0.00
9	TM	Ethyl Mathanesulfonate	80.000	76.167	4.8	101	0.00
10	TM	Benzaldehyde	80.000	82.446	-3.1	127	0.00
11	TM	Aniline	80.000	77.822	2.7	104	0.00
12	S	SURR2,PHENOL-D6	80.000	77.882	2.6	105	0.00
13	TMC	Phenol	80.000	72.791	9.0	99	0.00
14	TM	bis(2-Clethyl)Ether	80.000	66.541	16.8	91	0.00
15	TM	Pentachloroethane	80.000	75.813	5.2	103	0.00
16	TM	2-Chlorophenol	80.000	74.406	7.0	101	0.00
17	TM	1,3-Diclbenzene	80.000	72.349	9.6	96	0.00
18	TMC	1,4-Dichlorobenzene	80.000	74.299	7.1	98	0.00
19	TM	1,2-Diclbenzene	80.000	73.156	8.6	100	0.00
20	TM	Benzyl Alcohol	80.000	72.179	9.8	97	0.00
21	T	1-Methyl-2-pyrrolidinone	80.000	79.438	0.7	102	0.00
22	TM	2,2'-oxybis(1-Chloropropane	80.000	46.889	41.4#	66	0.00
23	TM	2-Methylphenol	80.000	78.166	2.3	106	0.00
24	TM	3+4-Methylphenol	80.000	73.115	8.6	102	0.00
25	TM	Acetophenone	80.000	75.294	5.9	104	0.00
26	TMP	N-Nitroso-Di-n-propylamine	80.000	75.882	5.1	106	0.00
27	TM	N-Nitrosopyrrolidine	80.000	77.816	2.7	109	0.00
28	TM	N-Nitrosomorpholine	80.000	74.972	6.3	107	0.00
29	TM	o-Toluidine	80.000	74.969	6.3	103	0.00
30	TM	Hexachloroethane	80.000	73.267	8.4	101	0.00
31	TM	o,o,o-Triethylphosphorothio	80.000	77.455	3.2	101	0.00
32	TM	Alpha-terpinol	80.000	74.309	7.1	91	0.00
33	IR	d8-Naphthalene	40.000	40.000	0.0	107	0.00
34	S	SURR4,NITROBENZENE-D5	80.000	77.432	3.2	106	0.00
35	TM	Nitrobenzene	80.000	69.725	12.8	96	0.00
36	TM	N-Nitrosopiperidine	80.000	76.572	4.3	104	0.00
37	TM	Isophorone	80.000	67.279	15.9	93	0.00
38	TCM	2-Nitrophenol	80.000	78.091	2.4	103	0.00
39	TM	Benzoic Acid	80.000	82.910	-3.6	118	0.00
40	TM	2,4-Dimethylphenol	80.000	74.794	6.5	100	0.00
41	TM	bis(-2-Chloroethoxy)Methane	80.000	66.878	16.4	93	0.00
42	TCM	2,4-Dichlorophenol	80.000	71.460	10.7	90	0.00
43	TM	a,a-Dimethylphenethylamine	40.000	35.858	10.4	94	0.06
44	TM	1,2,4-Trichlorobenzene	80.000	70.945	11.3	91	0.00
45	TM	Naphthalene	80.000	72.933	8.8	94	0.00
46	TM	4-Chloroaniline	80.000	79.231	1.0	102	0.00
47	TM	2,6-Dichlorophenol	80.000	79.245	0.9	101	0.00
48	TCM	Hexachlorobutadiene	80.000	72.166	9.8	92	0.00
49	TM	Hexachloropropene	80.000	77.975	2.5	97	0.00
50	TMC	4-Chloro-3-methylphenol	80.000	76.139	4.8	96	0.00
51	TM	N-N-di-n-butylamine	80.000	68.990	13.8	97	0.00

1st 10/27/17
2nd 10/27/17

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
52	TM	Caprolactam	80.000	75.593	5.5	98	0.00
53	TM	p-Phenylenediamine	80.000	67.604	15.5	99	0.00
54	TM	Safrole	80.000	76.002	5.0	95	0.00
55	TM	2-Methylnaphthalene	80.000	71.541	10.6	92	0.00
56	TM	1-Methylnaphthalene	80.000	73.732	7.8	95	0.00
57	IR	d10-Acenaphthene	40.000	40.000	0.0	116	0.00
58	TPM	Hexachlorocyclopentadiene	80.000	74.125	7.3	95	0.00
59	TM	1,2,4,5-Tetrachlorobenzene	80.000	74.922	6.3	100	0.00
60	TM	1,2,3,4-Tetrachlorobenzene	80.000	75.569	5.5	104	0.00
61	TCM	2,4,6-Trichlorophenol	80.000	70.893	11.4	93	0.00
62	TM	2,4,5-Trichlorophenol	80.000	69.741	12.8	98	0.00
63	S	SURR5,2-FLUOROBIPHENYL	80.000	74.615	6.7	103	0.00
64	TM	Isosafrole	80.000	73.985	7.5	102	0.00
65	TM	1,1'-Biphenyl	80.000	74.581	6.8	102	0.00
66	TM	2-Chloronaphthalene	80.000	71.907	10.1	101	0.00
67	TM	2-Nitroaniline	80.000	76.604	4.2	106	0.00
68	TM	1,4-Naphthoquinone	80.000	67.655	15.4	97	0.00
69	TM	m-Dinitrobenzene	80.000	77.603	3.0	103	0.00
70	TM	Acenaphthylene	80.000	72.755	9.1	102	0.00
71	TM	Dimethyl phthalate	80.000	73.391	8.3	105	0.00
72	TM	2,6-Dinitrotoluene	80.000	66.406	17.0	91	0.00
73	TMC	Acenaphthene	80.000	72.599	9.3	96	0.00
74	TM	3-Nitroaniline	80.000	79.300	0.9	104	0.00
75	TPM	2,4-Dinitrophenol	80.000	63.246	20.9#	80	0.00
76	TM	Dibenzofuran	80.000	71.610	10.5	98	0.00
77	TM	2,4-Dinitrotoluene	80.000	68.740	14.1	87	0.00
78	TMP	4-Nitrophenol	80.000	73.858	7.7	102	0.00
79	TM	Pentachlorobenzene	80.000	73.550	8.1	101	0.00
80	TM	1-Napthylamine	80.000	69.535	13.1	98	0.00
81	TM	2-Napthylamine	80.000	72.520	9.4	95	0.00
82	TM	2,3,4,6-Tetrachlorophenol	80.000	69.738	12.8	98	0.00
83	TM	Fluorene	80.000	68.425	14.5	97	0.00
84	TM	4-Chlorophenyl-phenylether	80.000	58.525	26.8#	84	0.00
85	TM	Diethylphthalate	80.000	72.231	9.7	101	0.00
86	TM	4-Nitroaniline	80.000	77.185	3.5	99	0.00
87	TM	5-Nitro-o-toluidine	80.000	72.560	9.3	95	0.00
88	S	SURR3,2,4,6-TRIBROMOPHENOL	80.000	70.702	11.6	98	0.00
89	TM	Sulfotepp	80.000	68.544	14.3	93	0.00
90	TM	Octachlorocyclopentene	80.000	74.763	6.5	95	0.00
91	IR	d10-Phenanthrene	40.000	40.000	0.0	101	0.00
92	TM	Thionazin	80.000	74.128	7.3	98	0.00
93	TM	4,6-Dinitro-2-methylphenol	80.000	73.119	8.6	95	0.00
94	TM	Diphenylamine	160.000	146.520	8.4	95	0.00
95	TM	1,2 Diphenylhydrazine	80.000	73.130	8.6	92	0.00
96	TCM	N-Nitrosodiphenylamine	160.000	146.516	8.4	95	0.00
97	TM	1,3,5-Trinirobenzene	80.000	78.898	1.4	100	0.00
98	TM	Diallate	80.000	69.076	13.7	95	0.00
99	TM	Phorate	80.000	73.436	8.2	94	0.00
100	TM	Phenacetin	80.000	75.005	6.2	98	0.00
101	TM	4-Bromophenyl-phenylether	80.000	58.539	26.8#	83	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\5973D\Data\102617\
Data File : BM206.D
Acq On : 26 Oct 2017 2:38 pm
Operator : J.Misiurewicz
Sample : ICV
Misc : Initial Calibration 8270D/625
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 27 10:33:01 2017
Quant Method : I:\ACQUDATA\5973D\Methods\8270102617D.M
Quant Title : 8270 BNA ANALYSIS
QLast Update : Thu Oct 26 14:29:15 2017
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
102	TM	Hexachlorobenzene	80.000	69.161	13.5	95	0.00
103	TM	Dimethoate	80.000	77.634	3.0	94	0.00
104	TM	Atrazine	80.000	83.255	-4.1	140	0.00
105	TCM	Pentachlorophenol	80.000	84.362	-5.5	106	0.00
106	TM	4-Aminobiphenyl	80.000	79.471	0.7	100	0.00
107	TM	Pentachloronitrobenzene	80.000	81.357	-1.7	103	0.00
108	TM	Pronamide	80.000	82.108	-2.6	103	0.00
109	TM	Dinoseb	80.000	72.602	9.2	92	0.00
110	TM	Disulfoton	80.000	70.318	12.1	91	0.00
111	TM	Phenanthrene	80.000	71.827	10.2	91	0.00
112	TM	Anthracene	80.000	74.569	6.8	93	0.00
113	TM	Carbazole	80.000	73.790	7.8	92	0.00
114	TM	Di-n-butylphthalate	80.000	79.022	1.2	96	0.00
115	TM	4-Nitroquinonline-1-oxide	80.000	82.587	-3.2	100	0.00
116	TCM	Fluoranthene	80.000	75.978	5.0	98	0.00
117	IR	d12-Chrysene	40.000	40.000	0.0	109	0.00
118	TM	Methyl Parathion	80.000	84.507	-5.6	93	0.00
119	TM	Ethyl Parathion	80.000	79.418	0.7	97	0.00
120	TM	Methapyrilene	80.000	66.001	17.5	86	0.00
121	TM	Isodrin	80.000	75.047	6.2	95	0.00
122	TM	Benzidine	80.000	88.261	-10.3	103	0.00
123	TM	Pyrene	80.000	74.275	7.2	95	0.00
124	S	SURR6,TERPHENYL-D14	80.000	74.342	7.1	96	0.00
125	TM	Aramite	80.000	75.086	6.1	99	0.01
126	TM	p-(Dimethylamino)azobenzene	80.000	76.278	4.7	99	0.00
127	TM	Chlorobenzilate	80.000	78.814	1.5	102	0.00
128	TM	Butyl benzyl phthalate	80.000	81.013	-1.3	104	0.00
129	TM	3,3-Dimethylbenzidine	80.000	94.578	-18.2	114	0.00
130	TM	2-Acetylaminofluorene	80.000	82.967	-3.7	101	0.00
131	TM	3,3'-Dichlorobenzidine	80.000	76.931	3.8	95	0.00
132	TM	Benzo(a)anthracene	80.000	72.675	9.2	96	0.00
133	TM	Chrysene	80.000	68.748	14.1	90	0.00
134	TM	bis(2-Ethylhexyl)phthalate	80.000	74.717	6.6	98	0.00
135	IR	d12-Perylene	40.000	40.000	0.0	117	0.00
136	TCM	Di-n-octyl phthalate	80.000	82.652	-3.3	108	0.00
137	TM	7,12-Dimethylbenz(a)anthrac	80.000	77.903	2.6	102	0.00
138	TM	Benzo(b)Fluoranthene	80.000	76.208	4.7	101	0.00
139	TM	Benzo(k)fluoranthene	80.000	75.188	6.0	99	0.00
140	TCM	Benzo(a)pyrene	80.000	75.230	6.0	101	0.00
141	TM	3-Methylcholanthrene	80.000	73.513	8.1	103	0.00
142	TM	Indeno(1,2,3-cd)Pyrene	80.000	73.390	8.3	107	0.00
143	TM	Dibenz(a,h)anthracene	80.000	70.551	11.8	100	0.00
144	TM	Benzo(g,h,i)perylene	80.000	79.313	0.9	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

#	Lab Code	Sample Name	File Location	Aquisition Date
01	RC1700113-01	2.5 ppm STD	I:\ACQUDATA\5973D\Data\102617\BM197.D	10/26/2017 10:22
02	RC1700113-02	10 ppm STD	I:\ACQUDATA\5973D\Data\102617\BM199.D	10/26/2017 11:19
03	RC1700113-03	50 ppm STD	I:\ACQUDATA\5973D\Data\102617\BM200.D	10/26/2017 11:47
04	RC1700113-04	80 ppm STD	I:\ACQUDATA\5973D\Data\102617\BM201.D	10/26/2017 12:16
05	RC1700113-05	100 ppm STD	I:\ACQUDATA\5973D\Data\102617\BM202.D	10/26/2017 12:44
06	RC1700113-06	120 ppm STD	I:\ACQUDATA\5973D\Data\102617\BM203.D	10/26/2017 13:13
07	RC1700113-07	160 ppm STD	I:\ACQUDATA\5973D\Data\102617\BM204.D	10/26/2017 13:41
08	RC1700113-08	5.0 ppm STD	I:\ACQUDATA\5973D\Data\102617\BM205.D	10/26/2017 14:10

Analyte

1,2,4-Trichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3278	08	5.000	0.3523	02	10.000	0.309	03	50.000	0.3206
04	80.000	0.3377	05	100.000	0.3172	06	120.000	0.3172	07	160.000	0.3021

1,2-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.354	08	5.000	1.536	02	10.000	1.399	03	50.000	1.431
04	80.000	1.445	05	100.000	1.463	06	120.000	1.458	07	160.000	1.39

1,3-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.653	08	5.000	1.51	02	10.000	1.319	03	50.000	1.481
04	80.000	1.536	05	100.000	1.508	06	120.000	1.49	07	160.000	1.419

1,4-Dichlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.434	08	5.000	1.499	02	10.000	1.467	03	50.000	1.473
04	80.000	1.558	05	100.000	1.508	06	120.000	1.501	07	160.000	1.458

2,4,5-Trichlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4139	08	5.000	0.3877	02	10.000	0.4204	03	50.000	0.3819
04	80.000	0.4244	05	100.000	0.4392	06	120.000	0.409	07	160.000	0.4195

2,4,6-Trichlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3789	08	5.000	0.4175	02	10.000	0.3875	03	50.000	0.4113
04	80.000	0.4638	05	100.000	0.4525	06	120.000	0.4252	07	160.000	0.415

2,4-Dichlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2636	08	5.000	0.2931	02	10.000	0.2804	03	50.000	0.2797
04	80.000	0.3017	05	100.000	0.2821	06	120.000	0.2941	07	160.000	0.2737

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

Analyte

2,4-Dimethylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2984	08	5.000	0.3484	02	10.000	0.3475	03	50.000	0.3469
04	80.000	0.3405	05	100.000	0.3533	06	120.000	0.3475	07	160.000	0.3376

2,4-Dinitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	10.000	0.07125	03	50.000	0.1296	04	80.000	0.187	05	100.000	0.1851
06	120.000	0.1936	07	160.000	0.1993						

2,4-Dinitrotoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	5.000	0.3941	02	10.000	0.3387	03	50.000	0.4309	04	80.000	0.5157
05	100.000	0.4787	06	120.000	0.4854	07	160.000	0.5032			

2,6-Dinitrotoluene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3165	08	5.000	0.3442	02	10.000	0.3644	03	50.000	0.3391
04	80.000	0.3736	05	100.000	0.3556	06	120.000	0.3537	07	160.000	0.3663

2-Chloronaphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.238	08	5.000	1.373	02	10.000	1.239	03	50.000	1.268
04	80.000	1.336	05	100.000	1.407	06	120.000	1.254	07	160.000	1.274

2-Chlorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.378	08	5.000	1.409	02	10.000	1.24	03	50.000	1.369
04	80.000	1.382	05	100.000	1.415	06	120.000	1.389	07	160.000	1.365

2-Methylnaphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6612	08	5.000	0.7129	02	10.000	0.6772	03	50.000	0.6831
04	80.000	0.712	05	100.000	0.6773	06	120.000	0.6673	07	160.000	0.6442

2-Methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.137	08	5.000	1.146	02	10.000	1.117	03	50.000	1.136
04	80.000	1.169	05	100.000	1.186	06	120.000	1.177	07	160.000	1.124

2-Nitroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2962	08	5.000	0.355	02	10.000	0.3444	03	50.000	0.3488
04	80.000	0.3727	05	100.000	0.391	06	120.000	0.3647	07	160.000	0.369

2-Nitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1584	08	5.000	0.1653	02	10.000	0.1753	03	50.000	0.1818
04	80.000	0.1837	05	100.000	0.1918	06	120.000	0.1979	07	160.000	0.1839

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

Analyte

3,3'-Dichlorobenzidine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4559	08	5.000	0.4786	02	10.000	0.4758	03	50.000	0.4715
04	80.000	0.5459	05	100.000	0.5166	06	120.000	0.5235	07	160.000	0.5119

3- and 4-Methylphenol Coelution

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.261	08	5.000	1.437	02	10.000	1.246	03	50.000	1.277
04	80.000	1.277	05	100.000	1.309	06	120.000	1.302	07	160.000	1.263

3-Nitroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2931	08	5.000	0.3259	02	10.000	0.2803	03	50.000	0.336
04	80.000	0.3821	05	100.000	0.3756	06	120.000	0.381	07	160.000	0.3858

4,6-Dinitro-2-methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	10.000	0.08876	03	50.000	0.1262	04	80.000	0.1284	05	100.000	0.1463
06	120.000	0.1374	07	160.000	0.1435						

4-Bromophenyl Phenyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2911	08	5.000	0.273	02	10.000	0.2961	03	50.000	0.2405
04	80.000	0.2276	05	100.000	0.2427	06	120.000	0.2254	07	160.000	0.2369

4-Chloro-3-methylphenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2365	08	5.000	0.2866	02	10.000	0.2856	03	50.000	0.2829
04	80.000	0.2982	05	100.000	0.2842	06	120.000	0.2905	07	160.000	0.2716

4-Chloroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4367	08	5.000	0.4204	02	10.000	0.4123	03	50.000	0.4313
04	80.000	0.4457	05	100.000	0.4266	06	120.000	0.4313	07	160.000	0.4025

4-Chlorophenyl Phenyl Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.8547	08	5.000	0.8222	02	10.000	0.7413	03	50.000	0.7502
04	80.000	0.7729	05	100.000	0.776	06	120.000	0.7151	07	160.000	0.7125

4-Nitroaniline

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3585	08	5.000	0.3649	02	10.000	0.3441	03	50.000	0.4007
04	80.000	0.4385	05	100.000	0.4247	06	120.000	0.3857	07	160.000	0.3866

4-Nitrophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	10.000	0.2348	03	50.000	0.281	04	80.000	0.3102	05	100.000	0.3108
06	120.000	0.3188	07	160.000	0.3123						

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

Analyte

Acenaphthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.264	08	5.000	1.369	02	10.000	1.383	03	50.000	1.318
04	80.000	1.487	05	100.000	1.395	06	120.000	1.295	07	160.000	1.311

Acenaphthylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	2.053	08	5.000	2.09	02	10.000	1.938	03	50.000	2.04
04	80.000	2.091	05	100.000	2.052	06	120.000	1.982	07	160.000	2.019

Anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.166	08	5.000	1.171	02	10.000	1.042	03	50.000	1.078
04	80.000	1.103	05	100.000	1.045	06	120.000	1.011	07	160.000	1.052

Benz(a)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.277	08	5.000	1.206	02	10.000	1.124	03	50.000	1.105
04	80.000	1.216	05	100.000	1.173	06	120.000	1.195	07	160.000	1.17

Benzo(a)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9952	08	5.000	1.011	02	10.000	1.019	03	50.000	1.081
04	80.000	1.159	05	100.000	1.041	06	120.000	1.095	07	160.000	1.107

Benzo(b)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.157	08	5.000	1.167	02	10.000	1.113	03	50.000	1.238
04	80.000	1.34	05	100.000	1.178	06	120.000	1.241	07	160.000	1.271

Benzo(g,h,i)perylene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.046	08	5.000	0.9906	02	10.000	1.068	03	50.000	1.11
04	80.000	1.062	05	100.000	0.9301	06	120.000	1.052	07	160.000	0.9338

Benzo(k)fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.091	08	5.000	1.13	02	10.000	1.107	03	50.000	1.196
04	80.000	1.302	05	100.000	1.142	06	120.000	1.164	07	160.000	1.214

Benzyl Alcohol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.083	08	5.000	1.123	02	10.000	1.102	03	50.000	1.124
04	80.000	1.165	05	100.000	1.162	06	120.000	1.172	07	160.000	1.135

2,2'-Oxybis(1-chloropropane)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.748	08	5.000	2.013	02	10.000	1.873	03	50.000	1.943
04	80.000	1.854	05	100.000	1.936	06	120.000	1.952	07	160.000	1.834

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

Analyte

Bis(2-chloroethoxy)methane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4028	08	5.000	0.4267	02	10.000	0.438	03	50.000	0.4415
04	80.000	0.4104	05	100.000	0.427	06	120.000	0.4351	07	160.000	0.4128

Bis(2-chloroethyl) Ether

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.264	08	5.000	1.341	02	10.000	1.196	03	50.000	1.353
04	80.000	1.32	05	100.000	1.376	06	120.000	1.341	07	160.000	1.307

Bis(2-ethylhexyl) Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.8263	08	5.000	0.9161	02	10.000	0.8657	03	50.000	0.84
04	80.000	0.9163	05	100.000	0.9565	06	120.000	0.8807	07	160.000	0.8915

Butyl Benzyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6371	08	5.000	0.6248	02	10.000	0.5351	03	50.000	0.6175
04	80.000	0.6482	05	100.000	0.6103	06	120.000	0.5878	07	160.000	0.6214

Carbazole

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.1	08	5.000	1.068	02	10.000	1.214	03	50.000	1.084
04	80.000	1.091	05	100.000	0.9976	06	120.000	0.9746	07	160.000	1.007

Chrysene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.144	08	5.000	1.205	02	10.000	1.12	03	50.000	1.067
04	80.000	1.186	05	100.000	1.138	06	120.000	1.127	07	160.000	1.123

Di-n-butyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.308	08	5.000	1.286	02	10.000	1.511	03	50.000	1.393
04	80.000	1.45	05	100.000	1.484	06	120.000	1.298	07	160.000	1.355

Di-n-octyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.201	08	5.000	1.24	02	10.000	1.339	03	50.000	1.379
04	80.000	1.537	05	100.000	1.415	06	120.000	1.44	07	160.000	1.464

Dibenz(a,h)anthracene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.072	08	5.000	1.095	02	10.000	1.11	03	50.000	1.162
04	80.000	1.151	05	100.000	1.029	06	120.000	1.177	07	160.000	1.121

Dibenzofuran

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.92	08	5.000	1.786	02	10.000	1.752	03	50.000	1.791
04	80.000	1.896	05	100.000	1.811	06	120.000	1.717	07	160.000	1.699

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

Analyte

Diethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.582	08	5.000	1.493	02	10.000	1.387	03	50.000	1.401
04	80.000	1.547	05	100.000	1.522	06	120.000	1.468	07	160.000	1.493

Dimethyl Phthalate

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.368	08	5.000	1.482	02	10.000	1.451	03	50.000	1.351
04	80.000	1.429	05	100.000	1.394	06	120.000	1.404	07	160.000	1.403

Fluoranthene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.276	08	5.000	1.143	02	10.000	1.222	03	50.000	1.178
04	80.000	1.164	05	100.000	1.155	06	120.000	1.16	07	160.000	1.164

Fluorene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.532	08	5.000	1.454	02	10.000	1.435	03	50.000	1.466
04	80.000	1.5	05	100.000	1.528	06	120.000	1.409	07	160.000	1.423

Hexachlorobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.2913	08	5.000	0.3003	02	10.000	0.3226	03	50.000	0.2618
04	80.000	0.2554	05	100.000	0.2525	06	120.000	0.2605	07	160.000	0.2594

Hexachlorobutadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1782	08	5.000	0.1751	02	10.000	0.1865	03	50.000	0.1884
04	80.000	0.1915	05	100.000	0.1839	06	120.000	0.1817	07	160.000	0.1753

Hexachlorocyclopentadiene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3292	08	5.000	0.3895	02	10.000	0.3788	03	50.000	0.3837
04	80.000	0.4523	05	100.000	0.4417	06	120.000	0.4134	07	160.000	0.4229

Hexachloroethane

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.5981	08	5.000	0.6387	02	10.000	0.6058	03	50.000	0.6389
04	80.000	0.6159	05	100.000	0.6218	06	120.000	0.6255	07	160.000	0.6087

Indeno(1,2,3-cd)pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.104	08	5.000	1.023	02	10.000	1.085	03	50.000	1.103
04	80.000	1.056	05	100.000	0.9456	06	120.000	1.079	07	160.000	0.9937

Isophorone

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6937	08	5.000	0.76	02	10.000	0.7299	03	50.000	0.7325
04	80.000	0.7073	05	100.000	0.7336	06	120.000	0.7427	07	160.000	0.6983

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

Analyte

N-Nitrosodi-n-propylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9243	08	5.000	1.076	02	10.000	0.9609	03	50.000	1.022
04	80.000	0.9798	05	100.000	1.001	06	120.000	1.029	07	160.000	0.9891

N-Nitrosodimethylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.6677	08	5.000	0.6732	02	10.000	0.6544	03	50.000	0.6958
04	80.000	0.7275	05	100.000	0.7001	06	120.000	0.7082	07	160.000	0.7561

N-Nitrosodiphenylamine

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
08	10.000	0.6389	02	20.000	0.6806	03	100.000	0.5805	04	160.000	0.5857
05	200.000	0.5709	06	240.000	0.5849	07	320.000	0.5784			

Naphthalene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.025	08	5.000	1.041	02	10.000	1.004	03	50.000	1.03
04	80.000	1.06	05	100.000	1.012	06	120.000	1.008	07	160.000	0.9549

Nitrobenzene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3605	08	5.000	0.4249	02	10.000	0.3886	03	50.000	0.4113
04	80.000	0.3909	05	100.000	0.411	06	120.000	0.4236	07	160.000	0.3952

Pentachlorophenol (PCP)

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	10.000	0.1042	03	50.000	0.1359	04	80.000	0.1564	05	100.000	0.1719
06	120.000	0.159	07	160.000	0.1697						

Phenanthrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.177	08	5.000	1.196	02	10.000	1.09	03	50.000	1.075
04	80.000	1.09	05	100.000	1.039	06	120.000	1.027	07	160.000	1.046

Phenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.732	08	5.000	1.644	02	10.000	1.513	03	50.000	1.653
04	80.000	1.672	05	100.000	1.686	06	120.000	1.698	07	160.000	1.616

Pyrene

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.367	08	5.000	1.234	02	10.000	1.077	03	50.000	1.202
04	80.000	1.308	05	100.000	1.215	06	120.000	1.214	07	160.000	1.217

2,4,6-Tribromophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.282	08	5.000	0.2723	02	10.000	0.2298	03	50.000	0.2468
04	80.000	0.2794	05	100.000	0.277	06	120.000	0.2723	07	160.000	0.28

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

Analyte

2-Fluorobiphenyl

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.448	08	5.000	1.5	02	10.000	1.469	03	50.000	1.49
04	80.000	1.594	05	100.000	1.634	06	120.000	1.479	07	160.000	1.487

2-Fluorophenol

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.258	08	5.000	1.415	02	10.000	1.346	03	50.000	1.299
04	80.000	1.361	05	100.000	1.347	06	120.000	1.383	07	160.000	1.306

Nitrobenzene-d5

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.3251	08	5.000	0.3716	02	10.000	0.3648	03	50.000	0.358
04	80.000	0.3543	05	100.000	0.3725	06	120.000	0.3755	07	160.000	0.3589

Phenol-d6

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	1.467	08	5.000	1.607	02	10.000	1.448	03	50.000	1.608
04	80.000	1.61	05	100.000	1.646	06	120.000	1.681	07	160.000	1.588

p-Terphenyl-d14

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.9855	08	5.000	0.9414	02	10.000	0.803	03	50.000	0.8899
04	80.000	0.9639	05	100.000	0.9018	06	120.000	0.8996	07	160.000	0.8894

Client: The LiRo Group
Project: City of Buffalo - Franczyk Park Site

Service Request: R1710113
Calibration Date: 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113
Instrument ID: R-MS-54

Signal ID: 1

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
1,2,4-Trichlorobenzene	TRG	Average RF	% RSD	5.0	≤20	0.323	
1,2-Dichlorobenzene	TRG	Average RF	% RSD	3.9	≤20	1.434	
1,3-Dichlorobenzene	TRG	Average RF	% RSD	6.4	≤20	1.49	
1,4-Dichlorobenzene	TRG	Average RF	% RSD	2.6	≤20	1.487	
2,4,5-Trichlorophenol	TRG	Average RF	% RSD	4.6	≤20	0.412	0.200
2,4,6-Trichlorophenol	TRG	Average RF	% RSD	6.9	≤20	0.419	0.200
2,4-Dichlorophenol	TRG	Average RF	% RSD	4.3	≤20	0.2836	0.200
2,4-Dimethylphenol	TRG	Average RF	% RSD	5.1	≤20	0.34	0.200
2,4-Dinitrophenol	TRG	Quadratic	COD	0.9923	≥0.99	0.161	0.010
2,4-Dinitrotoluene	TRG	Average RF	% RSD	14.4	≤20	0.4495	0.200
2,6-Dinitrotoluene	TRG	Average RF	% RSD	5.2	≤20	0.3517	0.200
2-Chloronaphthalene	TRG	Average RF	% RSD	5.0	≤20	1.299	0.800
2-Chlorophenol	TRG	Average RF	% RSD	4.0	≤20	1.368	0.800
2-Methylnaphthalene	TRG	Average RF	% RSD	3.5	≤20	0.6794	0.400
2-Methylphenol	TRG	Average RF	% RSD	2.2	≤20	1.149	0.700
2-Nitroaniline	TRG	Average RF	% RSD	7.9	≤20	0.3552	0.010
2-Nitrophenol	TRG	Average RF	% RSD	7.3	≤20	0.1798	0.100
3,3'-Dichlorobenzidine	TRG	Average RF	% RSD	6.3	≤20	0.4975	0.010
3- and 4-Methylphenol Coelution	TRG	Average RF	% RSD	4.7	≤20	1.297	0.600
3-Nitroaniline	TRG	Average RF	% RSD	12.3	≤20	0.345	0.010
4,6-Dinitro-2-methylphenol	TRG	Quadratic	COD	0.9951	≥0.99	0.1284	0.010
4-Bromophenyl Phenyl Ether	TRG	Average RF	% RSD	11.2	≤20	0.2542	0.100
4-Chloro-3-methylphenol	TRG	Average RF	% RSD	6.8	≤20	0.2795	0.200
4-Chloroaniline	TRG	Average RF	% RSD	3.2	≤20	0.4259	0.010
4-Chlorophenyl Phenyl Ether	TRG	Average RF	% RSD	6.5	≤20	0.7681	0.400
4-Nitroaniline	TRG	Average RF	% RSD	8.4	≤20	0.388	0.010
4-Nitrophenol	TRG	Average RF	% RSD	10.9	≤20	0.2947	0.010
Acenaphthene	TRG	Average RF	% RSD	5.2	≤20	1.353	0.900
Acenaphthylene	TRG	Average RF	% RSD	2.6	≤20	2.033	0.900
Anthracene	TRG	Average RF	% RSD	5.4	≤20	1.084	0.700
Benz(a)anthracene	TRG	Average RF	% RSD	4.6	≤20	1.183	0.800
Benzo(a)pyrene	TRG	Average RF	% RSD	5.3	≤20	1.063	0.700
Benzo(b)fluoranthene	TRG	Average RF	% RSD	6.0	≤20	1.213	0.700
Benzo(g,h,i)perylene	TRG	Average RF	% RSD	6.4	≤20	1.024	0.500

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Benzo(k)fluoranthene	TRG	Average RF	% RSD	5.8	≤20	1.168	0.700
Benzyl Alcohol	TRG	Average RF	% RSD	2.8	≤20	1.133	
2,2'-Oxybis(1-chloropropane)	TRG	Average RF	% RSD	4.4	≤20	1.894	0.010
Bis(2-chloroethoxy)methane	TRG	Average RF	% RSD	3.3	≤20	0.4243	0.300
Bis(2-chloroethyl) Ether	TRG	Average RF	% RSD	4.4	≤20	1.312	0.700
Bis(2-ethylhexyl) Phthalate	TRG	Average RF	% RSD	4.8	≤20	0.8866	0.010
Butyl Benzyl Phthalate	TRG	Average RF	% RSD	5.8	≤20	0.6103	0.010
Carbazole	TRG	Average RF	% RSD	7.1	≤20	1.067	0.010
Chrysene	TRG	Average RF	% RSD	3.7	≤20	1.139	0.700
Di-n-butyl Phthalate	TRG	Average RF	% RSD	6.4	≤20	1.386	0.010
Di-n-octyl Phthalate	TRG	Average RF	% RSD	8.2	≤20	1.377	0.010
Dibenz(a,h)anthracene	TRG	Average RF	% RSD	4.4	≤20	1.115	0.400
Dibenzofuran	TRG	Average RF	% RSD	4.4	≤20	1.796	0.800
Diethyl Phthalate	TRG	Average RF	% RSD	4.5	≤20	1.487	0.010
Dimethyl Phthalate	TRG	Average RF	% RSD	3.0	≤20	1.41	0.010
Fluoranthene	TRG	Average RF	% RSD	3.8	≤20	1.183	0.600
Fluorene	TRG	Average RF	% RSD	3.2	≤20	1.468	0.900
Hexachlorobenzene	TRG	Average RF	% RSD	9.4	≤20	0.2755	0.100
Hexachlorobutadiene	TRG	Average RF	% RSD	3.3	≤20	0.1826	0.010
Hexachlorocyclopentadiene	TRG	Average RF	% RSD	9.9	≤20	0.4014	0.050
Hexachloroethane	TRG	Average RF	% RSD	2.4	≤20	0.6192	0.300
Indeno(1,2,3-cd)pyrene	TRG	Average RF	% RSD	5.4	≤20	1.049	0.500
Isophorone	TRG	Average RF	% RSD	3.2	≤20	0.7247	0.400
N-Nitrosodi-n-propylamine	TRG	Average RF	% RSD	4.6	≤20	0.9978	0.500
N-Nitrosodimethylamine	TRG	Average RF	% RSD	4.8	≤20	0.6979	
N-Nitrosodiphenylamine	TRG	Average RF	% RSD	6.8	≤20	0.6028	0.010
Naphthalene	TRG	Average RF	% RSD	3.1	≤20	1.017	0.700
Nitrobenzene	TRG	Average RF	% RSD	5.3	≤20	0.4008	0.200
Pentachlorophenol (PCP)	TRG	Quadratic	COD	0.9926	≥0.99	0.1495	0.050
Phenanthrene	TRG	Average RF	% RSD	5.7	≤20	1.093	0.700
Phenol	TRG	Average RF	% RSD	4.0	≤20	1.652	0.800
Pyrene	TRG	Average RF	% RSD	6.8	≤20	1.229	0.600
2,4,6-Tribromophenol	SURR	Average RF	% RSD	7.1	≤20	0.2675	
2-Fluorobiphenyl	SURR	Average RF	% RSD	4.3	≤20	1.513	
2-Fluorophenol	SURR	Average RF	% RSD	3.8	≤20	1.339	

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
Nitrobenzene-d5	SURR	Average RF	% RSD	4.5	≤20	0.3601	
Phenol-d6	SURR	Average RF	% RSD	5.2	≤20	1.582	
p-Terphenyl-d14	SURR	Average RF	% RSD	6.2	≤20	0.9093	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Verification Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1700113-10	ICV	I:\ACQUDATA\5973D\Data\102617\BM206.D	10/26/2017 14:38
09	RC1700113-09	ICV	I:\ACQUDATA\5973D\Data\102617\BM206.D	10/26/2017 14:38

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
1,2,4-Trichlorobenzene	80.0	70.9	3.23E-1	2.864E-1	-11.319	±30	Average RF
1,2-Dichlorobenzene	80.0	73.2	1.434E0	1.312E0	-8.554	±30	Average RF
1,3-Dichlorobenzene	80.0	72.3	1.49E0	1.347E0	-9.564	±30	Average RF
1,4-Dichlorobenzene	80.0	74.3	1.487E0	1.381E0	-7.127	±30	Average RF
2,4,5-Trichlorophenol	80.0	69.7	4.12E-1	3.592E-1	-12.824	±30	Average RF
2,4,6-Trichlorophenol	80.0	70.9	4.19E-1	3.713E-1	-11.384	±30	Average RF
2,4-Dichlorophenol	80.0	71.5	2.836E-1	2.533E-1	-10.675	±30	Average RF
2,4-Dimethylphenol	80.0	74.8	3.4E-1	3.179E-1	-6.507	±30	Average RF
2,4-Dinitrophenol	80.0	63.2	1.61E-1	1.299E-1	-20.943	±30	Quadratic
2,4-Dinitrotoluene	80.0	68.7	4.495E-1	3.863E-1	-14.075	±30	Average RF
2,6-Dinitrotoluene	80.0	66.4	3.517E-1	2.919E-1	-16.992	±30	Average RF
2-Chloronaphthalene	80.0	71.9	1.299E0	1.167E0	-10.117	±30	Average RF
2-Chlorophenol	80.0	74.4	1.368E0	1.273E0	-6.992	±30	Average RF
2-Methylnaphthalene	80.0	71.5	6.794E-1	6.076E-1	-10.574	±30	Average RF
2-Methylphenol	80.0	78.2	1.149E0	1.123E0	-2.293	±30	Average RF
2-Nitroaniline	80.0	76.6	3.552E-1	3.401E-1	-4.245	±30	Average RF
2-Nitrophenol	80.0	78.1	1.798E-1	1.755E-1	-2.386	±30	Average RF
3,3'-Dichlorobenzidine	80.0	76.9	4.975E-1	4.784E-1	-3.836	±30	Average RF
3- and 4-Methylphenol Coelution	80.0	73.1	1.297E0	1.185E0	-8.606	±30	Average RF
3-Nitroaniline	80.0	79.3	3.45E-1	3.42E-1	-0.874	±30	Average RF
4,6-Dinitro-2-methylphenol	80.0	73.1	1.284E-1	1.209E-1	-8.601	±30	Quadratic
4-Bromophenyl Phenyl Ether	80.0	58.5	2.542E-1	1.86E-1	-26.827	±30	Average RF
4-Chloro-3-methylphenol	80.0	76.1	2.795E-1	2.66E-1	-4.826	±30	Average RF
4-Chloroaniline	80.0	79.2	4.259E-1	4.218E-1	-0.962	±30	Average RF
4-Chlorophenyl Phenyl Ether	80.0	58.5	7.681E-1	5.619E-1	-26.843	±30	Average RF
4-Nitroaniline	80.0	77.2	3.88E-1	3.743E-1	-3.518	±30	Average RF
4-Nitrophenol	80.0	73.9	2.947E-1	2.72E-1	-7.677	±30	Average RF
Acenaphthene	80.0	72.6	1.353E0	1.228E0	-9.251	±30	Average RF
Acenaphthylene	80.0	72.8	2.033E0	1.849E0	-9.056	±30	Average RF
Anthracene	80.0	74.6	1.084E0	1.01E0	-6.788	±30	Average RF
Benz(a)anthracene	80.0	72.7	1.183E0	1.075E0	-9.156	±30	Average RF
Benzo(a)pyrene	80.0	75.2	1.063E0	1.0E0	-5.962	±30	Average RF
Benzo(b)fluoranthene	80.0	76.2	1.213E0	1.156E0	-4.740	±30	Average RF
Benzo(g,h,i)perylene	80.0	79.3	1.024E0	1.015E0	-0.858	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Verification Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1700113-10	ICV	I:\ACQUDATA\5973D\Data\102617\BM206.D	10/26/2017 14:38
09	RC1700113-09	ICV	I:\ACQUDATA\5973D\Data\102617\BM206.D	10/26/2017 14:38

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
Benzo(k)fluoranthene	80.0	75.2	1.168E0	1.098E0	-6.015	±30	Average RF
Benzyl Alcohol	80.0	72.2	1.133E0	1.022E0	-9.776	±30	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	46.9	1.894E0	1.11E0	-41.389	±30	Average RF
Bis(2-chloroethoxy)methane	80.0	66.9	4.243E-1	3.547E-1	-16.402	±30	Average RF
Bis(2-chloroethyl) Ether	80.0	66.5	1.312E0	1.092E0	-16.823	±30	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	74.7	8.866E-1	8.281E-1	-6.604	±30	Average RF
Butyl Benzyl Phthalate	80.0	81.0	6.103E-1	6.18E-1	1.27	±30	Average RF
Carbazole	80.0	73.8	1.067E0	9.843E-1	-7.762	±30	Average RF
Chrysene	80.0	68.7	1.139E0	9.786E-1	-14.065	±30	Average RF
Di-n-butyl Phthalate	80.0	79.0	1.386E0	1.369E0	-1.223	±30	Average RF
Di-n-octyl Phthalate	80.0	82.7	1.377E0	1.423E0	3.31	±30	Average RF
Dibenz(a,h)anthracene	80.0	70.6	1.115E0	9.83E-1	-11.812	±30	Average RF
Dibenzofuran	80.0	71.6	1.796E0	1.608E0	-10.487	±30	Average RF
Diethyl Phthalate	80.0	72.2	1.487E0	1.342E0	-9.711	±30	Average RF
Dimethyl Phthalate	80.0	73.4	1.41E0	1.294E0	-8.261	±30	Average RF
Fluoranthene	80.0	76.0	1.183E0	1.123E0	-5.027	±30	Average RF
Fluorene	80.0	68.4	1.468E0	1.256E0	-14.469	±30	Average RF
Hexachlorobenzene	80.0	69.2	2.755E-1	2.381E-1	-13.548	±30	Average RF
Hexachlorobutadiene	80.0	72.2	1.826E-1	1.647E-1	-9.792	±30	Average RF
Hexachlorocyclopentadiene	80.0	74.1	4.014E-1	3.72E-1	-7.344	±30	Average RF
Hexachloroethane	80.0	73.3	6.192E-1	5.671E-1	-8.416	±30	Average RF
Indeno(1,2,3-cd)pyrene	80.0	73.4	1.049E0	9.62E-1	-8.263	±30	Average RF
Isophorone	80.0	67.3	7.247E-1	6.095E-1	-15.902	±30	Average RF
N-Nitrosodi-n-propylamine	80.0	75.9	9.978E-1	9.465E-1	-5.147	±30	Average RF
N-Nitrosodimethylamine	80.0	77.2	6.979E-1	6.732E-1	-3.534	±30	Average RF
N-Nitrosodiphenylamine	160	145	6.028E-1	5.47E-1	-9.260	±30	Average RF
Naphthalene	80.0	72.9	1.017E0	9.27E-1	-8.834	±30	Average RF
Nitrobenzene	80.0	69.7	4.008E-1	3.493E-1	-12.844	±30	Average RF
Pentachlorophenol (PCP)	80.0	84.4	1.495E-1	1.632E-1	5.45	±30	Quadratic
Phenanthrene	80.0	71.8	1.093E0	9.81E-1	-10.216	±30	Average RF
Phenol	80.0	72.8	1.652E0	1.503E0	-9.012	±30	Average RF
Pyrene	80.0	74.3	1.229E0	1.141E0	-7.157	±30	Average RF
2,4,6-Tribromophenol	80.0	70.7	2.675E-1	2.364E-1	-11.623	±30	Average RF
2-Fluorobiphenyl	80.0	74.6	1.513E0	1.411E0	-6.731	±30	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site **Calibration Date:** 10/26/2017

Initial Calibration Verification Summary
Semivolatile Organic Compounds by GC/MS

Calibration ID: RC1700113 **Signal ID:** 1
Instrument ID: R-MS-54

#	Lab Code	Sample Name	File Location	Aquisition Date
10	RC1700113-10	ICV	I:\ACQUDATA\5973D\Data\102617\BM206.D	10/26/2017 14:38
09	RC1700113-09	ICV	I:\ACQUDATA\5973D\Data\102617\BM206.D	10/26/2017 14:38

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2-Fluorophenol	80.0	75.1	1.339E0	1.257E0	-6.142	±30	Average RF
Nitrobenzene-d5	80.0	77.4	3.601E-1	3.485E-1	-3.210	±30	Average RF
Phenol-d6	80.0	77.9	1.582E0	1.54E0	-2.648	±30	Average RF
p-Terphenyl-d14	80.0	74.3	9.093E-1	8.45E-1	-7.073	±30	Average RF

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144 **Date Analyzed:** 10/30/17 10:01

Continuing Calibration Verification (CCV) Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Calibration Date:** 10/26/2017
File ID: I:\ACQUDATA\5973D\Data\103017\BM239.D\ **Calibration ID:** RC1700113
Analysis Lot: 567960
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	80.0	80.4	0.323	0.3245	0.5	NA	±20	Average RF
1,2-Dichlorobenzene	80.0	81.1	1.4344	1.4533	1.3	NA	±20	Average RF
1,3-Dichlorobenzene	80.0	78.5	1.4895	1.4609	-1.9	NA	±20	Average RF
1,4-Dichlorobenzene	80.0	79.2	1.4874	1.473	-1.0	NA	±20	Average RF
2,4,5-Trichlorophenol	80.0	76.1	0.412	0.3918	-4.9	NA	±20	Average RF
2,4,6-Trichlorophenol	80.0	78.7	0.419	0.4123	-1.6	NA	±20	Average RF
2,4-Dichlorophenol	80.0	84.0	0.2836	0.2977	5.0	NA	±20	Average RF
2,4-Dimethylphenol	80.0	82.0	0.34	0.3484	2.5	NA	±20	Average RF
2,4-Dinitrophenol	80.0	65.5	0.161	0.1356	NA	-18.1	±20	Quadratic
2,4-Dinitrotoluene	80.0	82.4	0.4495	0.463	3.0	NA	±20	Average RF
2,6-Dinitrotoluene	80.0	78.8	0.3517	0.3464	-1.5	NA	±20	Average RF
2-Chloronaphthalene	80.0	78.3	1.2987	1.2715	-2.1	NA	±20	Average RF
2-Chlorophenol	80.0	81.1	1.3684	1.3868	1.3	NA	±20	Average RF
2-Methylnaphthalene	80.0	82.1	0.6794	0.6975	2.7	NA	±20	Average RF
2-Methylphenol	80.0	80.4	1.149	1.1543	0.5	NA	±20	Average RF
2-Nitroaniline	80.0	81.1	0.3552	0.3599	1.3	NA	±20	Average RF
2-Nitrophenol	80.0	88.7	0.1798	0.1993	10.9	NA	±20	Average RF
3,3'-Dichlorobenzidine	80.0	79.8	0.4975	0.4963	-0.2	NA	±20	Average RF
3-Nitroaniline	80.0	83.2	0.345	0.3586	3.9	NA	±20	Average RF
4,6-Dinitro-2-methylphenol	80.0	76.9	0.1284	0.1278	NA	-3.9	±20	Quadratic
4-Bromophenyl Phenyl Ether	80.0	73.9	0.2542	0.2347	-7.7	NA	±20	Average RF
4-Chloro-3-methylphenol	80.0	85.9	0.2795	0.3	7.4	NA	±20	Average RF
4-Chloroaniline	80.0	82.8	0.4259	0.4406	3.4	NA	±20	Average RF
4-Chlorophenyl Phenyl Ether	80.0	77.1	0.7681	0.7399	-3.7	NA	±20	Average RF
4-Nitroaniline	80.0	79.0	0.388	0.3831	-1.3	NA	±20	Average RF
4-Nitrophenol	80.0	79.1	0.2947	0.2915	-1.1	NA	±20	Average RF
Acenaphthene	80.0	77.3	1.3528	1.3066	-3.4	NA	±20	Average RF
Acenaphthylene	80.0	78.9	2.0328	2.0059	-1.3	NA	±20	Average RF
Anthracene	80.0	79.7	1.0835	1.0788	-0.4	NA	±20	Average RF
Benz(a)anthracene	80.0	78.9	1.1832	1.1663	-1.4	NA	±20	Average RF
Benzo(a)pyrene	80.0	84.8	1.0634	1.1266	5.9	NA	±20	Average RF
Benzo(b)fluoranthene	80.0	83.8	1.2132	1.2704	4.7	NA	±20	Average RF
Benzo(g,h,i)perylene	80.0	82.6	1.024	1.0579	3.3	NA	±20	Average RF
Benzo(k)fluoranthene	80.0	84.7	1.1683	1.2375	5.9	NA	±20	Average RF
Benzyl Alcohol	80.0	79.1	1.1331	1.1204	-1.1	NA	±20	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	80.0	1.894	1.8948	0.0	NA	±20	Average RF
Bis(2-chloroethoxy)methane	80.0	84.5	0.4243	0.448	5.6	NA	±20	Average RF
Bis(2-chloroethyl) Ether	80.0	82.9	1.3123	1.3604	3.7	NA	±20	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	81.1	0.8866	0.8993	1.4	NA	±20	Average RF
Butyl Benzyl Phthalate	80.0	81.3	0.6103	0.6205	1.7	NA	±20	Average RF
Carbazole	80.0	79.7	1.0671	1.0637	-0.3	NA	±20	Average RF
Chrysene	80.0	78.4	1.1388	1.1165	-2.0	NA	±20	Average RF

Client: The LiRo Group
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Service Request: R1710113
Date Analyzed: 10/30/17 10:01

Continuing Calibration Verification (CCV) Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
File ID: I:\ACQUDATA\5973D\Data\103017\BM239.D\

Calibration Date: 10/26/2017
Calibration ID: RC1700113
Analysis Lot: 567960
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Di-n-butyl Phthalate	80.0	81.8	1.3856	1.4168	2.3	NA	±20	Average RF
Di-n-octyl Phthalate	80.0	84.0	1.3769	1.4464	5.0	NA	±20	Average RF
Dibenz(a,h)anthracene	80.0	82.2	1.1147	1.1458	2.8	NA	±20	Average RF
Dibenzofuran	80.0	78.3	1.7964	1.7581	-2.1	NA	±20	Average RF
Diethyl Phthalate	80.0	77.2	1.4865	1.4349	-3.5	NA	±20	Average RF
Dimethyl Phthalate	80.0	76.0	1.4103	1.3402	-5.0	NA	±20	Average RF
Fluoranthene	80.0	83.5	1.1828	1.2347	4.4	NA	±20	Average RF
Fluorene	80.0	78.8	1.4682	1.4464	-1.5	NA	±20	Average RF
Hexachlorobenzene	80.0	73.7	0.2755	0.2537	-7.9	NA	±20	Average RF
Hexachlorobutadiene	80.0	79.8	0.1826	0.182	-0.3	NA	±20	Average RF
Hexachlorocyclopentadiene	80.0	76.7	0.4014	0.3848	-4.1	NA	±20	Average RF
Hexachloroethane	80.0	79.6	0.6192	0.6164	-0.4	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	80.0	82.8	1.0486	1.0859	3.6	NA	±20	Average RF
Isophorone	80.0	82.8	0.7247	0.7497	3.4	NA	±20	Average RF
N-Nitrosodi-n-propylamine	80.0	79.7	0.9978	0.9942	-0.4	NA	±20	Average RF
N-Nitrosodimethylamine	80.0	84.8	0.6979	0.7399	6.0	NA	±20	Average RF
N-Nitrosodiphenylamine	160	157	0.6028	0.5872	-2.6	NA	±20	Average RF
Naphthalene	80.0	81.7	1.0169	1.0387	2.1	NA	±20	Average RF
Nitrobenzene	80.0	85.1	0.4008	0.4264	6.4	NA	±20	Average RF
Pentachlorophenol (PCP)	80.0	58.8	0.1495	0.1082	NA	-26.5*	±20	Quadratic
Phenanthrene	80.0	77.5	1.0926	1.0589	-3.1	NA	±20	Average RF
Phenol	80.0	81.0	1.6516	1.6719	1.2	NA	±20	Average RF
Pyrene	80.0	79.2	1.2292	1.2164	-1.0	NA	±20	Average RF
2,4,6-Tribromophenol	80.0	74.6	0.2675	0.2494	-6.7	NA	±20	Average RF
2-Fluorobiphenyl	80.0	77.7	1.5126	1.4683	-2.9	NA	±20	Average RF
2-Fluorophenol	80.0	80.5	1.3393	1.3482	0.7	NA	±20	Average RF
Nitrobenzene-d5	80.0	83.5	0.3601	0.3758	4.4	NA	±20	Average RF
Phenol-d6	80.0	81.3	1.5821	1.6087	1.7	NA	±20	Average RF
p-Terphenyl-d14	80.0	77.0	0.9093	0.8751	-3.8	NA	±20	Average RF

Client: The LiRo Group **Service Request:** R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144 **Date Analyzed:** 10/31/17 06:54

Continuing Calibration Verification (CCV) Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Calibration Date:** 10/26/2017
File ID: I:\ACQUDATA\5973D\Data\103117\BM268.D\ **Calibration ID:** RC1700113
Analysis Lot: 568326
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
1,2,4-Trichlorobenzene	80.0	77.3	0.323	0.3122	-3.3	NA	±20	Average RF
1,2-Dichlorobenzene	80.0	82.0	1.4344	1.4697	2.5	NA	±20	Average RF
1,3-Dichlorobenzene	80.0	81.9	1.4895	1.5242	2.3	NA	±20	Average RF
1,4-Dichlorobenzene	80.0	83.1	1.4874	1.5448	3.9	NA	±20	Average RF
2,4,5-Trichlorophenol	80.0	74.0	0.412	0.3809	-7.6	NA	±20	Average RF
2,4,6-Trichlorophenol	80.0	72.1	0.419	0.3774	-9.9	NA	±20	Average RF
2,4-Dichlorophenol	80.0	79.1	0.2836	0.2803	-1.1	NA	±20	Average RF
2,4-Dimethylphenol	80.0	83.6	0.34	0.3555	4.6	NA	±20	Average RF
2,4-Dinitrophenol	80.0	67.2	0.161	0.14	NA	-15.9	±20	Quadratic
2,4-Dinitrotoluene	80.0	81.7	0.4495	0.459	2.1	NA	±20	Average RF
2,6-Dinitrotoluene	80.0	72.4	0.3517	0.3182	-9.5	NA	±20	Average RF
2-Chloronaphthalene	80.0	71.8	1.2987	1.1656	-10.2	NA	±20	Average RF
2-Chlorophenol	80.0	86.4	1.3684	1.4779	8.0	NA	±20	Average RF
2-Methylnaphthalene	80.0	81.0	0.6794	0.6876	1.2	NA	±20	Average RF
2-Methylphenol	80.0	84.1	1.149	1.2076	5.1	NA	±20	Average RF
2-Nitroaniline	80.0	76.1	0.3552	0.3381	-4.8	NA	±20	Average RF
2-Nitrophenol	80.0	86.7	0.1798	0.1949	8.4	NA	±20	Average RF
3,3'-Dichlorobenzidine	80.0	80.2	0.4975	0.4987	0.2	NA	±20	Average RF
3-Nitroaniline	80.0	83.0	0.345	0.3578	3.7	NA	±20	Average RF
4,6-Dinitro-2-methylphenol	80.0	79.2	0.1284	0.1321	NA	-0.9	±20	Quadratic
4-Bromophenyl Phenyl Ether	80.0	75.9	0.2542	0.241	-5.2	NA	±20	Average RF
4-Chloro-3-methylphenol	80.0	83.8	0.2795	0.2926	4.7	NA	±20	Average RF
4-Chloroaniline	80.0	79.0	0.4259	0.4204	-1.3	NA	±20	Average RF
4-Chlorophenyl Phenyl Ether	80.0	70.1	0.7681	0.6729	-12.4	NA	±20	Average RF
4-Nitroaniline	80.0	73.6	0.388	0.3567	-8.1	NA	±20	Average RF
4-Nitrophenol	80.0	76.0	0.2947	0.2798	-5.0	NA	±20	Average RF
Acenaphthene	80.0	75.3	1.3528	1.2739	-5.8	NA	±20	Average RF
Acenaphthylene	80.0	78.9	2.0328	2.0055	-1.3	NA	±20	Average RF
Anthracene	80.0	81.0	1.0835	1.0971	1.3	NA	±20	Average RF
Benz(a)anthracene	80.0	78.9	1.1832	1.1672	-1.3	NA	±20	Average RF
Benzo(a)pyrene	80.0	82.9	1.0634	1.102	3.6	NA	±20	Average RF
Benzo(b)fluoranthene	80.0	80.5	1.2132	1.2214	0.7	NA	±20	Average RF
Benzo(g,h,i)perylene	80.0	91.2	1.024	1.1667	13.9	NA	±20	Average RF
Benzo(k)fluoranthene	80.0	82.0	1.1683	1.1975	2.5	NA	±20	Average RF
Benzyl Alcohol	80.0	84.4	1.1331	1.1951	5.5	NA	±20	Average RF
2,2'-Oxybis(1-chloropropane)	80.0	81.0	1.894	1.9175	1.2	NA	±20	Average RF
Bis(2-chloroethoxy)methane	80.0	80.6	0.4243	0.4275	0.8	NA	±20	Average RF
Bis(2-chloroethyl) Ether	80.0	85.9	1.3123	1.4083	7.3	NA	±20	Average RF
Bis(2-ethylhexyl) Phthalate	80.0	83.3	0.8866	0.9228	4.1	NA	±20	Average RF
Butyl Benzyl Phthalate	80.0	84.0	0.6103	0.6411	5.0	NA	±20	Average RF
Carbazole	80.0	86.8	1.0671	1.1578	8.5	NA	±20	Average RF
Chrysene	80.0	77.8	1.1388	1.107	-2.8	NA	±20	Average RF

Client: The LiRo Group
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Service Request: R1710113
Date Analyzed: 10/31/17 06:54

Continuing Calibration Verification (CCV) Summary
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
File ID: I:\ACQUDATA\5973D\Data\103117\BM268.D\

Calibration Date: 10/26/2017
Calibration ID: RC1700113
Analysis Lot: 568326
Units: ppm

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
Di-n-butyl Phthalate	80.0	83.8	1.3856	1.4512	4.7	NA	±20	Average RF
Di-n-octyl Phthalate	80.0	81.8	1.3769	1.4074	2.2	NA	±20	Average RF
Dibenz(a,h)anthracene	80.0	83.8	1.1147	1.1678	4.8	NA	±20	Average RF
Dibenzofuran	80.0	76.2	1.7964	1.7112	-4.7	NA	±20	Average RF
Diethyl Phthalate	80.0	71.1	1.4865	1.3209	-11.1	NA	±20	Average RF
Dimethyl Phthalate	80.0	70.5	1.4103	1.2436	-11.8	NA	±20	Average RF
Fluoranthene	80.0	87.0	1.1828	1.2862	8.7	NA	±20	Average RF
Fluorene	80.0	71.8	1.4682	1.3184	-10.2	NA	±20	Average RF
Hexachlorobenzene	80.0	75.3	0.2755	0.2594	-5.8	NA	±20	Average RF
Hexachlorobutadiene	80.0	82.3	0.1826	0.1877	2.8	NA	±20	Average RF
Hexachlorocyclopentadiene	80.0	67.3	0.4014	0.3378	-15.9	NA	±20	Average RF
Hexachloroethane	80.0	82.5	0.6192	0.6388	3.2	NA	±20	Average RF
Indeno(1,2,3-cd)pyrene	80.0	83.5	1.0486	1.094	4.3	NA	±20	Average RF
Isophorone	80.0	82.5	0.7247	0.7471	3.1	NA	±20	Average RF
N-Nitrosodi-n-propylamine	80.0	84.3	0.9978	1.0515	5.4	NA	±20	Average RF
N-Nitrosodimethylamine	80.0	92.9	0.6979	0.8104	16.1	NA	±20	Average RF
N-Nitrosodiphenylamine	160	154	0.6028	0.5752	-4.6	NA	±20	Average RF
Naphthalene	80.0	78.7	1.0169	0.9998	-1.7	NA	±20	Average RF
Nitrobenzene	80.0	82.3	0.4008	0.4124	2.9	NA	±20	Average RF
Pentachlorophenol (PCP)	80.0	65.5	0.1495	0.1223	NA	-18.1	±20	Quadratic
Phenanthrene	80.0	78.8	1.0926	1.0766	-1.5	NA	±20	Average RF
Phenol	80.0	85.2	1.6516	1.7587	6.5	NA	±20	Average RF
Pyrene	80.0	80.5	1.2292	1.2364	0.6	NA	±20	Average RF
2,4,6-Tribromophenol	80.0	77.1	0.2675	0.2578	-3.6	NA	±20	Average RF
2-Fluorobiphenyl	80.0	72.2	1.5126	1.3645	-9.8	NA	±20	Average RF
2-Fluorophenol	80.0	88.6	1.3393	1.4834	10.8	NA	±20	Average RF
Nitrobenzene-d5	80.0	82.2	0.3601	0.3699	2.7	NA	±20	Average RF
Phenol-d6	80.0	86.7	1.5821	1.7152	8.4	NA	±20	Average RF
p-Terphenyl-d14	80.0	77.0	0.9093	0.8753	-3.7	NA	±20	Average RF

Client: The LiRo Group **Service Request:**R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Analysis Run Log
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Analysis Lot:**567960
Instrument ID:R-MS-54

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\5973D\Data\103017\BM238.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	09:43:00	
I:\ACQUDATA\5973D\Data\103017\BM238.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	09:43:00	
I:\ACQUDATA\5973D\Data\103017\BM239.D\	Continuing Calibration Verification	RQ1711211-02	10/30/2017	10:01:00	
I:\ACQUDATA\5973D\Data\103017\BM239.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	10:01:00	
I:\ACQUDATA\5973D\Data\103017\BM241.D\	Method Blank	RQ1711100-01	10/30/2017	10:58:00	
I:\ACQUDATA\5973D\Data\103017\BM241.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	10:58:00	
I:\ACQUDATA\5973D\Data\103017\BM242.D\	Lab Control Sample	RQ1711100-02	10/30/2017	11:26:00	
I:\ACQUDATA\5973D\Data\103017\BM242.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	11:26:00	
I:\ACQUDATA\5973D\Data\103017\BM243.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	11:55:00	
I:\ACQUDATA\5973D\Data\103017\BM243.D\	Duplicate Lab Control Sample	RQ1711100-03	10/30/2017	11:55:00	
I:\ACQUDATA\5973D\Data\103017\BM244.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	12:23:00	
I:\ACQUDATA\5973D\Data\103017\BM244.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	12:23:00	
I:\ACQUDATA\5973D\Data\103017\BM245.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	12:51:00	
I:\ACQUDATA\5973D\Data\103017\BM245.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	12:51:00	
I:\ACQUDATA\5973D\Data\103017\BM246.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	13:20:00	
I:\ACQUDATA\5973D\Data\103017\BM247.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	13:48:00	
I:\ACQUDATA\5973D\Data\103017\BM248.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	14:16:00	
I:\ACQUDATA\5973D\Data\103017\BM249.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	14:45:00	
I:\ACQUDATA\5973D\Data\103017\BM250.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	15:13:00	
I:\ACQUDATA\5973D\Data\103017\BM251.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	15:41:00	
I:\ACQUDATA\5973D\Data\103017\BM252.D\	MW-7	R1710113-001	10/30/2017	16:09:00	
I:\ACQUDATA\5973D\Data\103017\BM253.D\	MW-3	R1710113-002	10/30/2017	16:37:00	
I:\ACQUDATA\5973D\Data\103017\BM254.D\	MW-D	R1710113-004	10/30/2017	17:05:00	

Client: The LiRo Group **Service Request:**R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Analysis Run Log
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Analysis Lot:**567960
Instrument ID:R-MS-54

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\5973D\Data\103017\BM256.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	18:02:00	
I:\ACQUDATA\5973D\Data\103017\BM257.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	18:30:00	
I:\ACQUDATA\5973D\Data\103017\BM259.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	19:26:00	
I:\ACQUDATA\5973D\Data\103017\BM260.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	19:54:00	
I:\ACQUDATA\5973D\Data\103017\BM261.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	20:22:00	
I:\ACQUDATA\5973D\Data\103017\BM262.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	20:50:00	
I:\ACQUDATA\5973D\Data\103017\BM263.D\	ZZZZZZZ	ZZZZZZZ	10/30/2017	21:19:00	
I:\ACQUDATA\5973D\Data\103117\BM267.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	06:36:00	
I:\ACQUDATA\5973D\Data\103117\BM267.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	06:36:00	
I:\ACQUDATA\5973D\Data\103117\BM268.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	06:54:00	
I:\ACQUDATA\5973D\Data\103117\BM269.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	07:22:00	
I:\ACQUDATA\5973D\Data\103117\BM270.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	07:50:00	
I:\ACQUDATA\5973D\Data\103117\BM271.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	08:18:00	
I:\ACQUDATA\5973D\Data\103117\BM272.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	08:46:00	
I:\ACQUDATA\5973D\Data\103117\BM273.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	09:15:00	
I:\ACQUDATA\5973D\Data\103117\BM274.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	09:43:00	
I:\ACQUDATA\5973D\Data\103117\BM275.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	10:11:00	
I:\ACQUDATA\5973D\Data\103117\BM276.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	10:40:00	
I:\ACQUDATA\5973D\Data\103117\BM277.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	11:08:00	
I:\ACQUDATA\5973D\Data\103117\BM278.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	11:36:00	
I:\ACQUDATA\5973D\Data\103117\BM279.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	12:04:00	
I:\ACQUDATA\5973D\Data\103117\BM280.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	12:32:00	
I:\ACQUDATA\5973D\Data\103117\BM281.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	13:00:00	

Client: The LiRo Group **Service Request:**R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Analysis Run Log
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Analysis Lot:**567960
Instrument ID:R-MS-54

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\5973D\Data\103117\BM282.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	13:29:00	
I:\ACQUDATA\5973D\Data\103117\BM283.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	13:57:00	
I:\ACQUDATA\5973D\Data\103117\BM284.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	14:25:00	
I:\ACQUDATA\5973D\Data\103117\BM285.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	14:53:00	
I:\ACQUDATA\5973D\Data\103117\BM286.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	15:21:00	
I:\ACQUDATA\5973D\Data\103117\BM287.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	15:49:00	
I:\ACQUDATA\5973D\Data\103117\BM288.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	16:17:00	
I:\ACQUDATA\5973D\Data\103117\BM289.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	16:45:00	
I:\ACQUDATA\5973D\Data\103117\BM291.D\	ZZZZZZZ	ZZZZZZZ	10/31/2017	17:41:00	

Client: The LiRo Group **Service Request:**R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144

Analysis Run Log
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D **Analysis Lot:**568326
Instrument ID:R-MS-54

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
I:\ACQUDATA\5973D\Data\103117 \BM268.D\	Continuing Calibration Verification	RQ1711335-02	10/31/2017	06:54:00	
I:\ACQUDATA\5973D\Data\103117 \BM290.D\	MW-8	R1710113-006	10/31/2017	17:13:00	

Analysis: 8270D **Analyst:** Dmisiorewicz **Run Method:** 8270D / Tune
Date: 10/30/17 **Instr.** 5973D R-MS-54 **Quant Method:** 82701026TD.M
Syringes: **LIMS Run#:** 567960

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			BM234	–	
2	Tune		184894	35	(N)	
2	Tune		↓	36	YT	
3	CCV		185086	37	(N)	Change liner. Remake STD.
2	Tune		184894	38	YT	
3	CCV	40 ng <		39	YCC	
4	CCV Phenols		185039	40	YCC	
5	RQ1711100-01	Blk	301663	41	Y	(RPT for Hexa)
6	-02	LS	(8270D w)	42	YQ	Surr ↓ Several ↓ (phenols)
7	-03	LCSD		43	YQ	RPDs >30
8	R1710069-001		(TICs)	44	Y	(Hexa)
9	-008		↓	45	Y	↓
10	R1710088-001			46	Y	(Phenols)
11	-002			47	Y	
12	RQ1711100-04			48	YQ	
13	-05			49	YQ	
14	R1710088-003			50	Y	
15	-004			51	Y	↓
16	R1710X113-001			52	Y	
17	-002			53	Y	
18	-004			54	Y	
19	-006	10		55	(N)	RPT 1/2
20	RQ1710880-01	Blk	301300	56	Y	
21	-02	LCS	(8270 S)	57	Y	Several ↓
22	-03	LCSD		58	(N)	RPT TO confirm
23	R1709912-001			59	Y	*dark
24	-002			60	Y	*dark
25	-003			61	Y	
26	-004			62	Y	Surr ↓
27	-005			63	Y	
28	-006			64	(N)	OUT OF Tune

DM 10/31/17

All samples = 1 mL + 10 uL Combined IS/Surr.; 183964

Primary :__________ exp: Secondary :__________ exp:
Primary:__________ exp: Secondary :__________ exp:
Reagents:

Runlog GCEXT r2 4/27/17

O-967 Page 67

Analysis: 8270D **Analyst:** Omisiwewicz **Run Method:** 8270D Tune
Date: 10/31/17 **Instr.** 5973D R-MS-54 **Quant Method:** 8270102617D.M
Syringes: **LIMS Run#:** 568326

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
				BM265	—	
1	Blk			66	(N)	
2	Tune		184824	67	Y+	
2	Tune		↓	68	YCC	p-phenyl >20%
3	CCV	50ng 5'	185135 185137	69	YCC	
4	CCV Hexa					
5	RQ1711161-01	Blk	301763	70	Y	
6	-02	LCS	(8270W)	71	YQ	4-BPPE ↓
7	↓ -03	LCSD		72	YQ	
8	R1710163-001		(TICS)	73	Y	(Hexa)
9	↓ -008		↓	74	Y	↓
10	R1710208-001		(TICS)	75	Y	
11	RQ1711100-01	Blk	301663	76	Y	(Hexa only)
12	-02	LCS		77	YQ	
13	↓ -03	LCSD		78	YQ	
14	R1710069-001			79	Y	
15	↓ -008			80	Y	↓
16	RQ1711197-01	Blk	301870	81	Y	
17	-02	LCS	(8270S)	82	YQ	
18	↓ -03	LCSD		83	YQ	
19	RQ1710880-03	LCSD	301306	84	YQ	Nitrobenzene ↓
20	R1709912-006			85	Y	
21	-007			86	Y	
22	↓ -008			87	Y	
23	RQ1710880-04		(R10880-005)	88	YQ	3,3-DCB ↓
24	↓ -05		↓	89	YQ	RPDs >30 ↓
25	R1710113-006	2.0	301663	90	Y	
26	R1710058-001	2.0	301870	91	Y	(Hexa) short
27	Blk			92	—	
27	↓			93	—	
27	↓			94	—	

DM 10/31/17

All samples = ______mL + ______uL Combined IS/Surr.;

Primary :____________ exp: Secondary :____________ exp:
Primary:____________ exp: Secondary :____________ exp:
Reagents:

Runlog GCEXT r2 4/27/17

O-967 Page 68

Analysis: 8270/625 Analyst: JMisiurewicz Run Method: 8270D/Tune
Date: 10/26/17 Instr. 5973D R-MS-54 Quant Method:
Syringes: LIMS Run#:

Pos.	Sample	Diln.	Stds. ID	File#	OK?	Comments
1	Blk			BM192	—	
1	Blk			93	—	
2	Tune		184894	94	Y5	
3	1,4-dichloroethane STD			95	Y	
3	Blk			96	Y	
4	2.5 ppm STD		185081	97	Y	
5	6.0			98	(N)	
6	10		185084	99	Y	
7	50		085	200	Y	
8	80		086	01	Y	
9	100		087	02	Y	
10	120		088	03	Y	
11	160		089	04	Y	
12	5.0		083	05	Y	
13	ICV		090	06	Y	

RS 10/30/17

All samples = _____mL + _____uL Combined IS/Surr.;

Primary :_____ exp: Secondary :_____ exp:
Primary:_____ exp: Secondary :_____ exp:
Reagents:

Prep Summary Report

Client: The LiRo Group **Service Request:**R1710113
Project: City of Buffalo - Franczyk Park Site/17-039-1144
Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Prep Method: EPA 3510C **Extraction Lot:**301663
Analytical Method: 8270D

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
MW-7	R1710113-001	10/24/17	10/25/17	1060.0000	1 mL	
MW-3	R1710113-002	10/24/17	10/25/17	1060.0000	1 mL	
MW-D	R1710113-004	10/24/17	10/25/17	1060.0000	1 mL	
MW-8	R1710113-006	10/25/17	10/25/17	1060.0000	1 mL	
Method Blank	RQ1711100-01MB	NA	NA	1000 mL	1 mL	
Lab Control Sample	RQ1711100-02LCS	NA	NA	1000 mL	1 mL	
Duplicate Lab Control Sample	RQ1711100-03DLCS	NA	NA	1000 mL	1 mL	

Preparation Information Benchsheet

Prep Run#: 301663 **Prep WorkFlow:** OrgExtAq(7) **Status:** Prepped
Team: Semivoa GCMS/DMURPHY **Prep Method:** EPA 3510C **Prep Date/Time:** 10/26/17 07:17 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	Spike Amt./Inv. ID	Comments
1	RQ1711100-01	MB		1000mL	8270D/SVO	6	x	x	1.00mL	clear-colorless	1.0000 mL/184826	
2	RQ1711100-02	LCS		1000mL	8270D/SVO	6	x	x	1.00mL	clear-colorless	1.0000 mL/184315; 1.0000 mL/184335; 1.0000 mL/184826; 1.0000 mL/184828	
3	RQ1711100-03	DLCS		1000mL	8270D/SVO	6	x	x	1.00mL	clear-colorless	1.0000 mL/184315; 1.0000 mL/184826; 1.0000 mL/184335; 1.0000 mL/184828	
4	R1710069-001	1710191017B ST-7-453	.01	1060mL	8270D/SVO	7	x	x	1.00mL	yellow-cloudy	1.0000 mL/184826	
5	R1710069-008	1710191059B ST-7-544	.01	1060mL	8270D/SVO	7	x	x	1.00mL	clear-colorless	1.0000 mL/184826	
6	R1710088-001	PCBM-01-1017	.05	1060mL	8270D/SVO	7	x	x	1.00mL	yellow-cloudy	1.0000 mL/184826	
7	R1710088-002	PCBM-02-1017	.06	1060mL	8270D/SVO	7	x	x	1.00mL	yellow-cloudy	1.0000 mL/184826	
8	RQ1711100-04	R1710088-002 MS	.07	1060mL	8270D/SVO	7	x	x	1.00mL	yellow-cloudy	1.0000 mL/184315; 1.0000 mL/184335; 1.0000 mL/184826; 1.0000 mL/184828	
9	RQ1711100-05	R1710088-002 DMS	.04	1060mL	8270D/SVO	7	x	x	1.00mL	yellow-cloudy	1.0000 mL/184315; 1.0000 mL/184335; 1.0000 mL/184826; 1.0000 mL/184828	
10	R1710088-003	PCM-03-1017	.04	1060mL	8270D/SVO	7	x	x	1.00mL	yellow-opaque	1.0000 mL/184826	
11	R1710088-004	PCM-04-1017	.04	1060mL	8270D/SVO	7	x	x	1.00mL	yellow-opaque	1.0000 mL/184826	
12	R1710113-001	MW-7	.04	1060mL	8270D/SVO	7	x	x	1.00mL	brown-opaque	1.0000 mL/184826	
13	R1710113-002	MW-3	.01	1060mL	8270D/SVO	5	x	x	1.00mL	brown-opaque	1.0000 mL/184826	
14	R1710113-004	MW-D	.04	1060mL	8270D/SVO	5	x	x	1.00mL	brown-opaque	1.0000 mL/184826	
15	R1710113-006	MW-8	.01	1060mL	8270D/SVO	7	x	x	1.00mL	black-opaque	1.0000 mL/184826	

Spiking Solutions

Name:	Benzidine LCS Spike 100ppm	Inventory ID	184315	Logbook Ref:	Expires On:	01/11/2018		
Name:	8270 LCS-NSI	Inventory ID	184335	Logbook Ref:	Expires On:	03/31/2018	Lot #:	091417
Name:	8270 Soil Surrogate 100-200ppm	Inventory ID	184826	Logbook Ref:	Expires On:	04/15/2018		
Name:	OLM/SOM additionals Spike 100ppm	Inventory ID	184828	Logbook Ref:	Expires On:	12/04/2017		

Preparation Materials

Eppendorf Pipette Repeater	EXT #17 (175854)	Sulfuric Acid, 50% H2SO4	(184778)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	cannister (184849)
Prepared Sodium Sulfate Na2SO4	(184949)	Sodium Hydroxide 50% NaOH	(184370)	pH Paper 0-14	(185029)

Preparation Information Benchsheet

Prep Run#: 301663
Team: Semivoa GCMS/DMURPHY

Prep WorkFlow: OrgExtAq(7)
Prep Method: EPA 3510C

Status: Prepped
Prep Date/Time: 10/26/17 07:17 AM

Preparation Steps

Step:	Extraction	Step:	Concentration	Step:	Final Volume
Started:	10/26/17 07:17	Started:	10/27/17 11:08	Started:	10/27/17 11:08
Finished:	10/26/17 14:29	Finished:	10/27/17 11:08	Finished:	10/27/17 11:08
By:	DMURPHY	By:	NBRADY	By:	NBRADY
Comments		Comments		Comments	

Comments: _____

Reviewed By: MPEDRO Date: 10/27/17 Spike Witness: MPEDRO Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Metals

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-7

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-001

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1120			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	23.5			P
7440-41-7	Beryllium	3.0	U		P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	392000			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	4110			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	77700			P
7439-96-5	Manganese	2950			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	18700			P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	35100			P
7440-28-0	Thallium	100	U		P
7440-62-2	Vanadium	50.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-3

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-002

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	214000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	70.5			P
7440-41-7	Beryllium	12.8			P
7440-43-9	Cadmium	12.4			P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	414000			P
7440-47-3	Chromium	23.4			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	1280000			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	478000			P
7439-96-5	Manganese	18400			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	131000			P
7782-49-2	Selenium	20.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	93100			P
7440-28-0	Thallium	100	U		P
7440-62-2	Vanadium	80.5			P
7440-66-6	Zinc	294			P

Color Before: YELLOW Clarity Before: CLOUDY Texture: _____

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MW-3 Diss

Contract: R1710113

Lab Code: | Case No.: | SAS No.: | SDG NO.: MW-7

Matrix (soil/water): WATER | Lab Sample ID: R1710113-003

Level (low/med): LOW | Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	225000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	24.7			P
7440-41-7	Beryllium	14.3			P
7440-43-9	Cadmium	14.5			P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	437000			P
7440-47-3	Chromium	13.5			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	1480000			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	631000			P
7439-96-5	Manganese	21100			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	143000			P
7782-49-2	Selenium	31.3			P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	101000			P
7440-28-0	Thallium	100	U		P
7440-62-2	Vanadium	68.6			P
7440-66-6	Zinc	211			P

Color Before: YELLOW | Clarity Before: CLOUDY | Texture:

Color After: YELLOW | Clarity After: CLEAR | Artifacts:

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-D

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-004

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	217000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	75.7			P
7440-41-7	Beryllium	12.9			P
7440-43-9	Cadmium	12.5			P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	415000			P
7440-47-3	Chromium	24.3			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	1260000			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	481000			P
7439-96-5	Manganese	18300			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	133000			P
7782-49-2	Selenium	28.7			P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	92500			P
7440-28-0	Thallium	100	U		P
7440-62-2	Vanadium	81.9			P
7440-66-6	Zinc	306			P

Color Before: YELLOW Clarity Before: CLOUDY Texture: _____

Color After: YELLOW Clarity After: CLOUDY Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-D Diss

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-005

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	176000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	28.9			P
7440-41-7	Beryllium	11.2			P
7440-43-9	Cadmium	11.0			P
7439-97-6	Mercury	0.200	U		CV
7440-70-2	Calcium	439000			P
7440-47-3	Chromium	11.3			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	20.0	U		P
7439-89-6	Iron	1190000			P
7439-92-1	Lead	50.0	U		P
7439-95-4	Magnesium	470000			P
7439-96-5	Manganese	17300			P
7440-02-0	Nickel	40.0	U		P
7440-09-7	Potassium	131000			P
7782-49-2	Selenium	18.6			P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	93200			P
7440-28-0	Thallium	20.0	U		P
7440-62-2	Vanadium	58.5			P
7440-66-6	Zinc	195			P

Color Before: YELLOW Clarity Before: CLEAR Texture: _____

Color After: YELLOW Clarity After: CLEAR Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-8

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-006

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200000			P
7440-36-0	Antimony	68.5			P
7440-38-2	Arsenic	581			P
7440-39-3	Barium	4220			P
7440-41-7	Beryllium	6.9			P
7440-43-9	Cadmium	7.9			P
7439-97-6	Mercury	14.5			CV
7440-70-2	Calcium	1140000			P
7440-47-3	Chromium	375			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	1080			P
7439-89-6	Iron	229000			P
7439-92-1	Lead	27400			P
7439-95-4	Magnesium	227000			P
7439-96-5	Manganese	3490			P
7440-02-0	Nickel	177			P
7440-09-7	Potassium	118000			P
7782-49-2	Selenium	27.2			P
7440-22-4	Silver	14.4			P
7440-23-5	Sodium	39100			P
7440-28-0	Thallium	38.8			P
7440-62-2	Vanadium	405			P
7440-66-6	Zinc	3150			P

Color Before: BROWN Clarity Before: CLOUDY Texture: _____

Color After: BROWN Clarity After: CLOUDY Artifacts: _____

Comments: _____

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-8 Diss

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Matrix (soil/water): WATER Lab Sample ID: R1710113-007

Level (low/med): LOW Date Received: 10/25/2017

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	89000			P
7440-36-0	Antimony	60.0	U		P
7440-38-2	Arsenic	347			P
7440-39-3	Barium	1970			P
7440-41-7	Beryllium	3.0			P
7440-43-9	Cadmium	5.0	U		P
7439-97-6	Mercury	8.1			CV
7440-70-2	Calcium	916000			P
7440-47-3	Chromium	163			P
7440-48-4	Cobalt	50.0	U		P
7440-50-8	Copper	487			P
7439-89-6	Iron	106000			P
7439-92-1	Lead	12900			P
7439-95-4	Magnesium	210000			P
7439-96-5	Manganese	2020			P
7440-02-0	Nickel	77.6			P
7440-09-7	Potassium	89300			P
7782-49-2	Selenium	10.0	U		P
7440-22-4	Silver	10.0	U		P
7440-23-5	Sodium	39200			P
7440-28-0	Thallium	26.0			P
7440-62-2	Vanadium	181			P
7440-66-6	Zinc	1440			P

Color Before: BROWN Clarity Before: CLOUDY Texture: _____

Color After: BROWN Clarity After: CLOUDY Artifacts: _____

Comments: _____

Metals Cover Page

Analyst: NM **Date:** 10/31/17 **Instrument:** ICP6

Data File: 60CT316 **Reviewed By:** CK 11/1/17 **Entered By:** CK 11/1/17

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
568339	AgAlAsBaBeCaCdCo CrCuFeKMgNaNiPb SbSeTlVZn	301737	6010C		10018-003,009 Se
568344	AsBaCaCdCrCuFeKMg NaNiPbSeZn	301957	6010C	Mn	10031-019 Mn
568345	TAl+B	301960	6010C	Mn	10113-001 CaTl -003 ~~-002~~ CaFeKMgPbTl ~~-002 -003,005 CaFeKTlSe~~ -004 CaFeKTl -006 CaFeKPb -007 CaFePbSe CK 11/4/17
					10054-008,012 Ca 10200-001 KNa
568348	AgBaBeCdCrCuFeMg MnNiSbZn	301955	6010C		10073-009 Fe

Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

ICP-6 Run Log

Serial number: MY15340001

Analyst: NM Date: 10/31/17 Data File: 60CT31B

	Prep Date	Lot #
MRL	9/18/17	M7608D093D
ICSA	10/13/17	M7620109A
ICSAB	10/13/17	M7620115H
Int. Std	10/20/17	M7620125M
HLCCV3	10/25/17	M7620060L

	Prep Date	Lot #
Cal Std 1	10/24/17	M7620010B
Cal Std 2	10/25/17	M7620022B
Cal Std 5/ HLCCV1	10/30/17	M7620032D
ICV/CCV	10/31/17	M7620049Z
HLCCV2	10/25/17	M7620072B

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot	M7600002W	M7600003D	M25, M35	M7290047	—

1:9	PBW-301737
1:10	LCSW-301737
1:11	R1710018-001
1:12	R1710018-002
1:13	R1710018-003 100X
1:14	R1710018-004
1:15	R1710018-005
1:16	R1710018-005S
1:17	R1710018-005SD
1:18	R1710018-005A
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
1:19	R1710018-005L
1:20	R1710018-006
1:21	R1710018-007 10X
1:22	R1710018-007
1:23	R1710018-008
1:24	R1710018-009 100X
1:25	R1710018-010
1:26	R1710018-011
1:27	R1710191-001 10X
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:21	HLCCV2
S1:22	HLCCV3
S1:23	HLCCV1
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1

1:28	PBW-301957
1:29	LCSW-301957
1:30	R1710031-019
1:31	R1710033-001
1:32	R1710033-002
1:33	R1710033-003
1:34	R1710033-004
1:35	R1710033-005
1:36	R1710033-005S
1:37	R1710033-005SD
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
1:38	R1710033-005A
1:39	R1710033-005L
1:40	K1710862-001
1:41	K1710862-002
1:42	K1710862-003
1:43	K1710862-004
1:44	K1710862-005
1:45	K1710862-006
1:46	K1710862-006S
1:47	K1710862-006SD
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
1:48	K1710862-006A
1:49	K1710862-006L
1:50	K1710862-007
1:51	K1710862-008
1:52	K1710862-009
1:53	K1710862-010
1:54	K1710862-001 T
1:55	K1710862-002 T
1:56	K1710862-006 T
1:57	K1710862-006S T
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
1:58	K1710862-006SD T
1:59	K1710862-006A T
1:60	K1710862-006L T
2:1	K1710862-014 T

S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
2:2	PBW-301960
2:3	LCSW-301960
2:4	R1710054-001
2:5	R1710054-001S
2:6	R1710054-001SD
2:7	R1710054-001A
2:8	R1710054-001L
2:9	R1710054-002
2:10	R1710054-004
2:11	R1710054-006
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
2:12	R1710054-008
2:13	R1710054-010
2:14	R1710054-012
2:15	R1710054-013
2:16	R1710113-001
2:17	R1710113-~~002~~ 003
2:18	R1710113-~~003~~ 002
2:19	R1710113-004
2:20	R1710113-005
2:21	R1710113-006
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
2:22	R1710113-007
2:23	R1710113-007L
2:24	R1710200-001
2:25	R1710200-003
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB

11/14/17

NM 10/31/17 1/2

P:\INTRANET\QAQC

ICP-6 Run Log

Serial number: MY15340001

Analyst: NM Date: 10/31/17 Data File: 60CT31B

	Prep Date	Lot #		Prep Date	Lot #
MRL			Cal Std 1		
ICSA			Cal Std 2		
ICSAB	See Previous Page		Cal Std 5/ HLCCV1	NM 10/31/17	
Int. Std			ICV/CCV		
			HLCCV2		

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot					

S1:8	Continuing Calibration Verification1	2:45	R1710073-014SD
S1:9	Continuing Calibration Blank1	S1:8	Continuing Calibration Verification1
2:26	PBW-301955	S1:9	Continuing Calibration Blank1
2:27	LCSW-301955	2:46	R1710073-014A
2:28	R1710073-001	2:47	R1710073-014L
2:29	R1710073-002	2:48	R1710073-015
2:30	R1710073-003	2:49	R1710073-016
2:31	R1710073-004	2:50	R1710073-017
2:32	R1710073-005	2:51	R1710073-018
2:33	R1710073-006	2:52	R1710073-019
2:34	R1710073-007	2:53	R1710073-020
2:35	R1710073-008	2:54	R1710073-021
S1:8	Continuing Calibration Verification1	2:55	R1710073-022
S1:9	Continuing Calibration Blank1	S1:8	Continuing Calibration Verification1
2:36	R1710073-009	S1:9	Continuing Calibration Blank1
2:37	R1710073-010	S1:3	Contract Required Detection Limit
2:38	R1710073-013	S1:4	Interference Check Solution A
2:39	R1710073-013S	S1:5	Interference Check Solution AB
2:40	R1710073-013SD	S1:6	Continuing Calibration Verification
2:41	R1710073-013A	S1:7	Continuing Calibration Blank
2:42	R1710073-013L		
2:43	R1710073-014		
2:44	R1710073-014S		

NM 10/31/17 2/2

Agilent Technologies

Path: C:\Agilent\ICP Expert\My Results\6OCT31B.esws
Date created: 11/10/2015 11:09:45 AM
Instrument used: MY15340001
Software Version : 7.100.6821.61355 Firmware Version : 2994
Notes:

Detailed Results

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 18:19:15	Blank	Ag (328.068 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-103.5199
10/31/2017 18:19:15	Blank	Al (394.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	125.8898
10/31/2017 18:19:15	Blank	As (188.980 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.4556
10/31/2017 18:19:15	Blank	B (249.772 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	33.7366
10/31/2017 18:19:15	Blank	Ba (230.424 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	1.8955
10/31/2017 18:19:15	Blank	Be (313.107 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-523.7467
10/31/2017 18:19:15	Blank	Ca (227.547 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	4.4141
10/31/2017 18:19:15	Blank	Cd (214.439 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	13.5722
10/31/2017 18:19:15	Blank	Co (230.786 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-3.5604
10/31/2017 18:19:15	Blank	Cr (267.716 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.0703
10/31/2017 18:19:15	Blank	Cu (327.395 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	12.9636
10/31/2017 18:19:15	Blank	Fe (234.350 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	11.8400
10/31/2017 18:19:15	Blank	K (766.491 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-8.8328
10/31/2017 18:19:15	Blank	Mg (279.078 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.6701
10/31/2017 18:19:15	Blank	Mn (257.610 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	4.3915
10/31/2017 18:19:15	Blank	Mo (202.032 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	7.0792
10/31/2017 18:19:15	Blank	Na (588.995 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-5460.2635
10/31/2017 18:19:15	Blank	Ni (230.299 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-20.6132
10/31/2017 18:19:15	Blank	Pb (220.353 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	5.0502
10/31/2017 18:19:15	Blank	Sb (217.582 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	0.8064
10/31/2017 18:19:15	Blank	Se (196.026 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	0.7762
10/31/2017 18:19:15	Blank	Sn (189.925 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.0732
10/31/2017 18:19:15	Blank	Sr (216.596 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.6593
10/31/2017 18:19:15	Blank	Ti (336.122 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-481.7161
10/31/2017 18:19:15	Blank	Tl (351.923 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	7.3004
10/31/2017 18:19:15	Blank	V (292.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	108.9825
10/31/2017 18:19:15	Blank	Y (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	853197.58
10/31/2017 18:19:15	Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	854201.44
10/31/2017 18:19:15	Blank	Zn (213.857 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-26.6762
10/31/2017 18:22:35	Standard 1	Ag (328.068 nm)		N/A		-104.7942
10/31/2017 18:22:35	Standard 1	Al (394.401 nm)		N/A		351.1252
10/31/2017 18:22:35	Standard 1	As (188.980 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	3.4940
10/31/2017 18:22:35	Standard 1	B (249.772 nm)		N/A		34.0968
10/31/2017 18:22:35	Standard 1	Ba (230.424 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	703.0304
10/31/2017 18:22:35	Standard 1	Be (313.107 nm)		N/A		-520.6401
10/31/2017 18:22:35	Standard 1	Ca (227.547 nm)		N/A		33.0679
10/31/2017 18:22:35	Standard 1	Cd (214.439 nm)	0.0010 (ppm)	N/A	0.0010 (ppm)	35.3551
10/31/2017 18:22:35	Standard 1	Co (230.786 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	27.0994
10/31/2017 18:22:35	Standard 1	Cr (267.716 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	278.0843
10/31/2017 18:22:35	Standard 1	Cu (327.395 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	654.1048

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 18:22:35	Standard 1	Fe (234.350 nm)		N/A		52.6441
10/31/2017 18:22:35	Standard 1	K (766.491 nm)		N/A		5502.4831
10/31/2017 18:22:35	Standard 1	Mg (279.078 nm)		N/A		946.6257
10/31/2017 18:22:35	Standard 1	Mn (257.610 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	3343.9407
10/31/2017 18:22:35	Standard 1	Mo (202.032 nm)	0.0250 (ppm)	N/A	0.0250 (ppm)	253.7540
10/31/2017 18:22:35	Standard 1	Na (588.995 nm)		N/A		17236.4553
10/31/2017 18:22:35	Standard 1	Ni (230.299 nm)		N/A		-19.4085
10/31/2017 18:22:35	Standard 1	Pb (220.353 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	15.7987
10/31/2017 18:22:35	Standard 1	Sb (217.582 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	12.8064
10/31/2017 18:22:35	Standard 1	Se (196.026 nm)		N/A		1.7561
10/31/2017 18:22:35	Standard 1	Sn (189.925 nm)		N/A		0.2859
10/31/2017 18:22:35	Standard 1	Sr (216.596 nm)		N/A		-1.0881
10/31/2017 18:22:35	Standard 1	Ti (336.122 nm)		N/A		-462.9603
10/31/2017 18:22:35	Standard 1	Tl (351.923 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	29.9563
10/31/2017 18:22:35	Standard 1	V (292.401 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	208.0102
10/31/2017 18:22:35	Standard 1	Y (360.074 nm)	1.00 (Ratio)	0.82	1.00 (Ratio)	849198.82
10/31/2017 18:22:35	Standard 1	Y_R (360.074 nm)	1.00 (Ratio)	0.82	1.00 (Ratio)	850192.04
10/31/2017 18:22:35	Standard 1	Zn (213.857 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	254.5639
10/31/2017 18:25:55	Standard 2	Ag (328.068 nm)		N/A		-102.4632
10/31/2017 18:25:55	Standard 2	Al (394.401 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1242.4452
10/31/2017 18:25:55	Standard 2	As (188.980 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	7.2067
10/31/2017 18:25:55	Standard 2	B (249.772 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	5159.2552
10/31/2017 18:25:55	Standard 2	Ba (230.424 nm)		N/A		3.9312
10/31/2017 18:25:55	Standard 2	Be (313.107 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	3744.1623
10/31/2017 18:25:55	Standard 2	Ca (227.547 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	57.1130
10/31/2017 18:25:55	Standard 2	Cd (214.439 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	121.3219
10/31/2017 18:25:55	Standard 2	Co (230.786 nm)		N/A		-3.3831
10/31/2017 18:25:55	Standard 2	Cr (267.716 nm)		N/A		17.6804
10/31/2017 18:25:55	Standard 2	Cu (327.395 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	1234.1570
10/31/2017 18:25:55	Standard 2	Fe (234.350 nm)		N/A		27.9560
10/31/2017 18:25:55	Standard 2	K (766.491 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	5448.0512
10/31/2017 18:25:55	Standard 2	Mg (279.078 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	1896.5676
10/31/2017 18:25:55	Standard 2	Mn (257.610 nm)		N/A		53.6019
10/31/2017 18:25:55	Standard 2	Mo (202.032 nm)		N/A		8.9899
10/31/2017 18:25:55	Standard 2	Na (588.995 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	39488.6222
10/31/2017 18:25:55	Standard 2	Ni (230.299 nm)		N/A		-23.0376
10/31/2017 18:25:55	Standard 2	Pb (220.353 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	111.6192
10/31/2017 18:25:55	Standard 2	Sb (217.582 nm)	0.0600 (ppm)	N/A	0.0600 (ppm)	79.2915
10/31/2017 18:25:55	Standard 2	Se (196.026 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	10.9879
10/31/2017 18:25:55	Standard 2	Sn (189.925 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	605.7899
10/31/2017 18:25:55	Standard 2	Sr (216.596 nm)		N/A		-1.2608
10/31/2017 18:25:55	Standard 2	Ti (336.122 nm)		N/A		-465.9189
10/31/2017 18:25:55	Standard 2	Tl (351.923 nm)		N/A		12.1476
10/31/2017 18:25:55	Standard 2	V (292.401 nm)		N/A		106.5438
10/31/2017 18:25:55	Standard 2	Y (360.074 nm)	0.99 (Ratio)	0.54	0.99 (Ratio)	848349.31
10/31/2017 18:25:55	Standard 2	Y_R (360.074 nm)	0.99 (Ratio)	0.54	0.99 (Ratio)	849273.00
10/31/2017 18:25:55	Standard 2	Zn (213.857 nm)		N/A		-19.9982
10/31/2017 18:29:15	Standard 3	Ag (328.068 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	597.2075
10/31/2017 18:29:15	Standard 3	Al (394.401 nm)		N/A		2363.0519
10/31/2017 18:29:15	Standard 3	As (188.980 nm)		N/A		14.6275
10/31/2017 18:29:15	Standard 3	B (249.772 nm)		N/A		1365.6804

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 18:29:15	Standard 3	Ba (230.424 nm)		N/A		7122.8755
10/31/2017 18:29:15	Standard 3	Be (313.107 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	6627.6959
10/31/2017 18:29:15	Standard 3	Ca (227.547 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	32.9342
10/31/2017 18:29:15	Standard 3	Cd (214.439 nm)		N/A		233.5080
10/31/2017 18:29:15	Standard 3	Co (230.786 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	495.5987
10/31/2017 18:29:15	Standard 3	Cr (267.716 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	502.3833
10/31/2017 18:29:15	Standard 3	Cu (327.395 nm)		N/A		1523.4347
10/31/2017 18:29:15	Standard 3	Fe (234.350 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1452.7629
10/31/2017 18:29:15	Standard 3	K (766.491 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1396.0043
10/31/2017 18:29:15	Standard 3	Mg (279.078 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	948.8947
10/31/2017 18:29:15	Standard 3	Mn (257.610 nm)		N/A		4959.0570
10/31/2017 18:29:15	Standard 3	Mo (202.032 nm)		N/A		505.1944
10/31/2017 18:29:15	Standard 3	Na (588.995 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	17122.2998
10/31/2017 18:29:15	Standard 3	Ni (230.299 nm)	0.0400 (ppm)	N/A	0.0400 (ppm)	252.4379
10/31/2017 18:29:15	Standard 3	Pb (220.353 nm)		N/A		26.9071
10/31/2017 18:29:15	Standard 3	Sb (217.582 nm)		N/A		132.9939
10/31/2017 18:29:15	Standard 3	Se (196.026 nm)		N/A		8.1127
10/31/2017 18:29:15	Standard 3	Sn (189.925 nm)		N/A		125.7195
10/31/2017 18:29:15	Standard 3	Sr (216.596 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	726.0513
10/31/2017 18:29:15	Standard 3	Ti (336.122 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	9963.5907
10/31/2017 18:29:15	Standard 3	Tl (351.923 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	64.4533
10/31/2017 18:29:15	Standard 3	V (292.401 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	1855.1659
10/31/2017 18:29:15	Standard 3	Y (360.074 nm)	1.00 (Ratio)	0.71	1.00 (Ratio)	850320.55
10/31/2017 18:29:15	Standard 3	Y_R (360.074 nm)	1.00 (Ratio)	0.72	1.00 (Ratio)	851257.37
10/31/2017 18:29:15	Standard 3	Zn (213.857 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	531.8399
10/31/2017 18:32:35	Standard 4	Ag (328.068 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	13890.3236
10/31/2017 18:32:35	Standard 4	Al (394.401 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	47714.5145
10/31/2017 18:32:35	Standard 4	As (188.980 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	349.2770
10/31/2017 18:32:35	Standard 4	B (249.772 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	27221.1367
10/31/2017 18:32:35	Standard 4	Ba (230.424 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	140472.0872
10/31/2017 18:32:35	Standard 4	Be (313.107 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	147210.2647
10/31/2017 18:32:35	Standard 4	Ca (227.547 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	541.4631
10/31/2017 18:32:35	Standard 4	Cd (214.439 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4452.3226
10/31/2017 18:32:35	Standard 4	Co (230.786 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	10066.5545
10/31/2017 18:32:35	Standard 4	Cr (267.716 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	10024.2416
10/31/2017 18:32:35	Standard 4	Cu (327.395 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	30341.8357
10/31/2017 18:32:35	Standard 4	Fe (234.350 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	23115.6597
10/31/2017 18:32:35	Standard 4	K (766.491 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	28822.1085
10/31/2017 18:32:35	Standard 4	Mg (279.078 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	19226.4520
10/31/2017 18:32:35	Standard 4	Mn (257.610 nm)	0.3000 (ppm)	N/A	0.3000 (ppm)	95871.4661
10/31/2017 18:32:35	Standard 4	Mo (202.032 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	10245.4814
10/31/2017 18:32:35	Standard 4	Na (588.995 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	445567.6530
10/31/2017 18:32:35	Standard 4	Ni (230.299 nm)	0.8000 (ppm)	N/A	0.8000 (ppm)	5521.9775
10/31/2017 18:32:35	Standard 4	Pb (220.353 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	439.9752
10/31/2017 18:32:35	Standard 4	Sb (217.582 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2725.8639
10/31/2017 18:32:35	Standard 4	Se (196.026 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	169.5243
10/31/2017 18:32:35	Standard 4	Sn (189.925 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2479.5408
10/31/2017 18:32:35	Standard 4	Sr (216.596 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	14495.7996
10/31/2017 18:32:35	Standard 4	Ti (336.122 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	210607.9691
10/31/2017 18:32:35	Standard 4	Tl (351.923 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	1064.6912
10/31/2017 18:32:35	Standard 4	V (292.401 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	35532.2803

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 18:32:35	Standard 4	Y (360.074 nm)	0.97 (Ratio)	0.59	0.97 (Ratio)	830041.98
10/31/2017 18:32:35	Standard 4	Y_R (360.074 nm)	0.97 (Ratio)	0.59	0.97 (Ratio)	830919.92
10/31/2017 18:32:35	Standard 4	Zn (213.857 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	11111.4334
10/31/2017 18:35:55	Standard 5	Ag (328.068 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	71405.2576
10/31/2017 18:35:55	Standard 5	Al (394.401 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	256801.1015
10/31/2017 18:35:55	Standard 5	As (188.980 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	1787.7393
10/31/2017 18:35:55	Standard 5	B (249.772 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	138586.3572
10/31/2017 18:35:55	Standard 5	Ba (230.424 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	671184.1781
10/31/2017 18:35:55	Standard 5	Be (313.107 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	738074.1927
10/31/2017 18:35:55	Standard 5	Ca (227.547 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2824.4336
10/31/2017 18:35:55	Standard 5	Cd (214.439 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	21641.1722
10/31/2017 18:35:55	Standard 5	Co (230.786 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	49320.7722
10/31/2017 18:35:55	Standard 5	Cr (267.716 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	49488.3909
10/31/2017 18:35:55	Standard 5	Cu (327.395 nm)	2.5000 (ppm)	N/A	2.5000 (ppm)	155368.7260
10/31/2017 18:35:55	Standard 5	Fe (234.350 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	111548.0093
10/31/2017 18:35:55	Standard 5	K (766.491 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	151147.9269
10/31/2017 18:35:55	Standard 5	Mg (279.078 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	96498.2712
10/31/2017 18:35:55	Standard 5	Mn (257.610 nm)	1.5000 (ppm)	N/A	1.5000 (ppm)	469794.4575
10/31/2017 18:35:55	Standard 5	Mo (202.032 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	50966.2867
10/31/2017 18:35:55	Standard 5	Na (588.995 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2269032.0713
10/31/2017 18:35:55	Standard 5	Ni (230.299 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	26895.3429
10/31/2017 18:35:55	Standard 5	Pb (220.353 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	2140.1011
10/31/2017 18:35:55	Standard 5	Sb (217.582 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	13678.3515
10/31/2017 18:35:55	Standard 5	Se (196.026 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	857.6859
10/31/2017 18:35:55	Standard 5	Sn (189.925 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	12097.7908
10/31/2017 18:35:55	Standard 5	Sr (216.596 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	70932.9257
10/31/2017 18:35:55	Standard 5	Ti (336.122 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	1045320.7208
10/31/2017 18:35:55	Standard 5	Tl (351.923 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	5508.9903
10/31/2017 18:35:55	Standard 5	V (292.401 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	176827.5888
10/31/2017 18:35:55	Standard 5	Y (360.074 nm)	0.93 (Ratio)	0.43	0.93 (Ratio)	795913.03
10/31/2017 18:35:55	Standard 5	Y_R (360.074 nm)	0.93 (Ratio)	0.43	0.93 (Ratio)	796689.16
10/31/2017 18:35:55	Standard 5	Zn (213.857 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	55934.9305
10/31/2017 18:39:15	Initial Calibration Verification	Ag (328.068 nm)	0.4861 (ppm)	2.75	0.4861 (ppm)	34627.7133
10/31/2017 18:39:15	Initial Calibration Verification	Al (394.401 nm)	9.4170 (ppm)	2.83	9.4170 (ppm)	120642.3731
10/31/2017 18:39:15	Initial Calibration Verification	As (188.980 nm)	0.9618 (ppm)	2.97	0.9618 (ppm)	858.3469
10/31/2017 18:39:15	Initial Calibration Verification	B (249.772 nm)	2.4188 (ppm)	2.76	2.4188 (ppm)	67003.2983
10/31/2017 18:39:15	Initial Calibration Verification	Ba (230.424 nm)	10.1955 (ppm)	2.79	10.1955 (ppm)	342766.4788
10/31/2017 18:39:15	Initial Calibration Verification	Be (313.107 nm)	0.2506 (ppm)	2.86	0.2506 (ppm)	369648.1308
10/31/2017 18:39:15	Initial Calibration Verification	Ca (227.547 nm)	24.1074 (ppm)	2.66	24.1074 (ppm)	1361.5514
10/31/2017 18:39:15	Initial Calibration Verification	Cd (214.439 nm)	0.4977 (ppm)	3.07	0.4977 (ppm)	10788.4391
10/31/2017 18:39:15	Initial Calibration Verification	Co (230.786 nm)	2.5723 (ppm)	2.90	2.5723 (ppm)	25392.4648
10/31/2017 18:39:15	Initial Calibration Verification	Cr (267.716 nm)	0.5003 (ppm)	3.04	0.5003 (ppm)	24769.0045
10/31/2017 18:39:15	Initial Calibration Verification	Cu (327.395 nm)	1.1990 (ppm)	2.76	1.1990 (ppm)	74450.9240
10/31/2017 18:39:15	Initial Calibration Verification	Fe (234.350 nm)	4.8091 (ppm)	2.97	4.8091 (ppm)	53725.4482
10/31/2017 18:39:15	Initial Calibration Verification	K (766.491 nm)	24.4613 (ppm)	2.39	24.4613 (ppm)	73797.8101
10/31/2017 18:39:15	Initial Calibration Verification	Mg (279.078 nm)	24.8717 (ppm)	2.95	24.8717 (ppm)	47993.8464
10/31/2017 18:39:15	Initial Calibration Verification	Mn (257.610 nm)	0.7484 (ppm)	2.98	0.7484 (ppm)	234570.5900
10/31/2017 18:39:15	Initial Calibration Verification	Mo (202.032 nm)	2.3849 (ppm)	2.95	2.3849 (ppm)	24317.5397
10/31/2017 18:39:15	Initial Calibration Verification	Na (588.995 nm)	24.5330 (ppm)	2.53	24.5330 (ppm)	1110171.1730
10/31/2017 18:39:15	Initial Calibration Verification	Ni (230.299 nm)	2.0255 (ppm)	2.97	2.0255 (ppm)	13624.1850
10/31/2017 18:39:15	Initial Calibration Verification	Pb (220.353 nm)	0.4975 (ppm)	3.16	0.4975 (ppm)	1067.9328

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 18:39:15	Initial Calibration Verification	Sb (217.582 nm)	4.8717 (ppm)	2.92	4.8717 (ppm)	6663.0527
10/31/2017 18:39:15	Initial Calibration Verification	Se (196.026 nm)	0.4794 (ppm)	1.95	0.4794 (ppm)	411.3137
10/31/2017 18:39:15	Initial Calibration Verification	Sn (189.925 nm)	5.0492 (ppm)	3.86	5.0492 (ppm)	6114.1922
10/31/2017 18:39:15	Initial Calibration Verification	Sr (216.596 nm)	2.5244 (ppm)	2.35	2.5244 (ppm)	35842.9633
10/31/2017 18:39:15	Initial Calibration Verification	Ti (336.122 nm)	2.4890 (ppm)	2.85	2.4890 (ppm)	520310.2938
10/31/2017 18:39:15	Initial Calibration Verification	Tl (351.923 nm)	0.9776 (ppm)	2.79	0.9776 (ppm)	2692.6160
10/31/2017 18:39:15	Initial Calibration Verification	V (292.401 nm)	2.5015 (ppm)	2.74	2.5015 (ppm)	88527.6020
10/31/2017 18:39:15	Initial Calibration Verification	Y (360.074 nm)	0.96 (Ratio)	2.04	0.96 (Ratio)	821049.66
10/31/2017 18:39:15	Initial Calibration Verification	Y_R (360.074 nm)	0.96 (Ratio)	2.04	0.96 (Ratio)	821870.63
10/31/2017 18:39:15	Initial Calibration Verification	Zn (213.857 nm)	0.9965 (ppm)	2.96	0.9965 (ppm)	27850.6476
10/31/2017 18:42:34	Initial Calibration Blank	Ag (328.068 nm)	0.0003 (ppm)	39.35	0.0003 (ppm)	-82.5601
10/31/2017 18:42:34	Initial Calibration Blank	Al (394.401 nm)	0.0056 (ppm)	43.08	0.0056 (ppm)	197.7476
10/31/2017 18:42:34	Initial Calibration Blank	As (188.980 nm)	-0.0011 u (ppm)	80.14	-0.0011 (ppm)	-2.4467
10/31/2017 18:42:34	Initial Calibration Blank	B (249.772 nm)	0.0064 (ppm)	22.23	0.0064 (ppm)	210.4616
10/31/2017 18:42:34	Initial Calibration Blank	Ba (230.424 nm)	0.0088 (ppm)	45.13	0.0088 (ppm)	297.9993
10/31/2017 18:42:34	Initial Calibration Blank	Be (313.107 nm)	0.0002 (ppm)	32.78	0.0002 (ppm)	-253.2082
10/31/2017 18:42:34	Initial Calibration Blank	Ca (227.547 nm)	0.0089 u (ppm)	> 100.00	0.0089 (ppm)	4.9145
10/31/2017 18:42:34	Initial Calibration Blank	Cd (214.439 nm)	0.0004 (ppm)	8.00	0.0004 (ppm)	22.2399
10/31/2017 18:42:34	Initial Calibration Blank	Co (230.786 nm)	0.0020 (ppm)	32.82	0.0020 (ppm)	16.3176
10/31/2017 18:42:34	Initial Calibration Blank	Cr (267.716 nm)	0.0003 (ppm)	52.86	0.0003 (ppm)	14.6836
10/31/2017 18:42:34	Initial Calibration Blank	Cu (327.395 nm)	0.0011 (ppm)	33.81	0.0011 (ppm)	80.5329
10/31/2017 18:42:34	Initial Calibration Blank	Fe (234.350 nm)	0.0043 (ppm)	38.90	0.0043 (ppm)	60.0026
10/31/2017 18:42:34	Initial Calibration Blank	K (766.491 nm)	0.0623 (ppm)	15.29	0.0623 (ppm)	179.0306
10/31/2017 18:42:34	Initial Calibration Blank	Mg (279.078 nm)	0.0164 (ppm)	39.15	0.0164 (ppm)	30.9269
10/31/2017 18:42:34	Initial Calibration Blank	Mn (257.610 nm)	0.0006 (ppm)	31.31	0.0006 (ppm)	191.2506
10/31/2017 18:42:34	Initial Calibration Blank	Mo (202.032 nm)	0.0040 (ppm)	14.36	0.0040 (ppm)	48.1357
10/31/2017 18:42:34	Initial Calibration Blank	Na (588.995 nm)	0.0151 (ppm)	41.06	0.0151 (ppm)	-4774.4815
10/31/2017 18:42:34	Initial Calibration Blank	Ni (230.299 nm)	0.0013 (ppm)	79.98	0.0013 (ppm)	-11.6472
10/31/2017 18:42:34	Initial Calibration Blank	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	4.5493
10/31/2017 18:42:34	Initial Calibration Blank	Sb (217.582 nm)	0.0056 (ppm)	36.92	0.0056 (ppm)	8.5088
10/31/2017 18:42:34	Initial Calibration Blank	Se (196.026 nm)	-0.0011 u (ppm)	61.47	-0.0011 (ppm)	-0.1640
10/31/2017 18:42:34	Initial Calibration Blank	Sn (189.925 nm)	0.0042 (ppm)	57.16	0.0042 (ppm)	5.0362
10/31/2017 18:42:34	Initial Calibration Blank	Sr (216.596 nm)	0.0017 (ppm)	52.99	0.0017 (ppm)	23.5437
10/31/2017 18:42:34	Initial Calibration Blank	Ti (336.122 nm)	0.0031 (ppm)	19.70	0.0031 (ppm)	163.8718
10/31/2017 18:42:34	Initial Calibration Blank	Tl (351.923 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	12.3110
10/31/2017 18:42:34	Initial Calibration Blank	V (292.401 nm)	0.0018 (ppm)	40.48	0.0018 (ppm)	171.7929
10/31/2017 18:42:34	Initial Calibration Blank	Y (360.074 nm)	0.99 (Ratio)	0.61	0.99 (Ratio)	847177.32
10/31/2017 18:42:34	Initial Calibration Blank	Y_R (360.074 nm)	0.99 (Ratio)	0.60	0.99 (Ratio)	848069.83
10/31/2017 18:42:34	Initial Calibration Blank	Zn (213.857 nm)	0.0009 (ppm)	26.16	0.0009 (ppm)	-1.5850
10/31/2017 18:45:52	Contract Required Detection Limit	Ag (328.068 nm)	0.0098 (ppm)	1.23	0.0098 (ppm)	595.4004
10/31/2017 18:45:52	Contract Required Detection Limit	Al (394.401 nm)	0.1775 (ppm)	1.16	0.1775 (ppm)	2397.9015
10/31/2017 18:45:52	Contract Required Detection Limit	As (188.980 nm)	0.0195 (ppm)	11.64	0.0195 (ppm)	15.9660
10/31/2017 18:45:52	Contract Required Detection Limit	B (249.772 nm)	0.1922 (ppm)	0.37	0.1922 (ppm)	5353.8759
10/31/2017 18:45:52	Contract Required Detection Limit	Ba (230.424 nm)	0.2143 (ppm)	0.57	0.2143 (ppm)	7205.6035
10/31/2017 18:45:52	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.46	0.0049 (ppm)	6757.1918
10/31/2017 18:45:52	Contract Required Detection Limit	Ca (227.547 nm)	1.0015 (ppm)	2.64	1.0015 (ppm)	60.7961
10/31/2017 18:45:52	Contract Required Detection Limit	Cd (214.439 nm)	0.0104 (ppm)	1.43	0.0104 (ppm)	238.5050
10/31/2017 18:45:52	Contract Required Detection Limit	Co (230.786 nm)	0.0528 (ppm)	0.32	0.0528 (ppm)	517.7737
10/31/2017 18:45:52	Contract Required Detection Limit	Cr (267.716 nm)	0.0103 (ppm)	0.76	0.0103 (ppm)	510.3866
10/31/2017 18:45:52	Contract Required Detection Limit	Cu (327.395 nm)	0.0248 (ppm)	0.61	0.0248 (ppm)	1552.8695
10/31/2017 18:45:52	Contract Required Detection Limit	Fe (234.350 nm)	0.1040 (ppm)	0.59	0.1040 (ppm)	1173.5397

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 18:45:52	Contract Required Detection Limit	K (766.491 nm)	0.9433 (ppm)	1.43	0.9433 (ppm)	2837.2691
10/31/2017 18:45:52	Contract Required Detection Limit	Mg (279.078 nm)	0.9995 (ppm)	0.52	0.9995 (ppm)	1928.0956
10/31/2017 18:45:52	Contract Required Detection Limit	Mn (257.610 nm)	0.0156 (ppm)	0.37	0.0156 (ppm)	4898.3802
10/31/2017 18:45:52	Contract Required Detection Limit	Mo (202.032 nm)	0.0262 (ppm)	1.17	0.0262 (ppm)	274.1087
10/31/2017 18:45:52	Contract Required Detection Limit	Na (588.995 nm)	1.0014 (ppm)	0.79	1.0014 (ppm)	40077.8037
10/31/2017 18:45:52	Contract Required Detection Limit	Ni (230.299 nm)	0.0420 (ppm)	3.09	0.0420 (ppm)	262.3593
10/31/2017 18:45:52	Contract Required Detection Limit	Pb (220.353 nm)	0.0102 (ppm)	0.69	0.0102 (ppm)	26.7744
10/31/2017 18:45:52	Contract Required Detection Limit	Sb (217.582 nm)	0.0616 (ppm)	1.38	0.0616 (ppm)	84.9916
10/31/2017 18:45:52	Contract Required Detection Limit	Se (196.026 nm)	0.0093 (ppm)	22.93	0.0093 (ppm)	8.7716
10/31/2017 18:45:52	Contract Required Detection Limit	Sn (189.925 nm)	0.5087 (ppm)	0.97	0.5087 (ppm)	615.9125
10/31/2017 18:45:52	Contract Required Detection Limit	Sr (216.596 nm)	0.1021 (ppm)	0.80	0.1021 (ppm)	1448.5682
10/31/2017 18:45:52	Contract Required Detection Limit	Ti (336.122 nm)	0.0517 (ppm)	0.45	0.0517 (ppm)	10326.6401
10/31/2017 18:45:52	Contract Required Detection Limit	Tl (351.923 nm)	0.0191 (ppm)	2.28	0.0191 (ppm)	59.7186
10/31/2017 18:45:52	Contract Required Detection Limit	V (292.401 nm)	0.0502 (ppm)	0.88	0.0502 (ppm)	1883.3431
10/31/2017 18:45:52	Contract Required Detection Limit	Y (360.074 nm)	0.99 (Ratio)	0.69	0.99 (Ratio)	847948.14
10/31/2017 18:45:52	Contract Required Detection Limit	Y_R (360.074 nm)	0.99 (Ratio)	0.68	0.99 (Ratio)	848832.25
10/31/2017 18:45:52	Contract Required Detection Limit	Zn (213.857 nm)	0.0197 (ppm)	1.79	0.0197 (ppm)	523.7761
10/31/2017 18:49:11	Interference Check Solution A	Ag (328.068 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-90.5680
10/31/2017 18:49:11	Interference Check Solution A	Al (394.401 nm)	259.9502 o (ppm)	0.12	259.9502 (ppm)	3326890.4029
10/31/2017 18:49:11	Interference Check Solution A	As (188.980 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.8703
10/31/2017 18:49:11	Interference Check Solution A	B (249.772 nm)	0.0404 (ppm)	0.85	0.0404 (ppm)	1152.8935
10/31/2017 18:49:11	Interference Check Solution A	Ba (230.424 nm)	0.0015 (ppm)	40.20	0.0015 (ppm)	53.9346
10/31/2017 18:49:11	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	54.91	0.0000 (ppm)	-551.9257
10/31/2017 18:49:11	Interference Check Solution A	Ca (227.547 nm)	264.6263 o (ppm)	0.06	264.6263 (ppm)	14901.6591
10/31/2017 18:49:11	Interference Check Solution A	Cd (214.439 nm)	-0.0009 u (ppm)	16.87	-0.0009 (ppm)	-6.9342
10/31/2017 18:49:11	Interference Check Solution A	Co (230.786 nm)	-0.0016 u (ppm)	16.78	-0.0016 (ppm)	-19.4252
10/31/2017 18:49:11	Interference Check Solution A	Cr (267.716 nm)	0.0002 (ppm)	67.38	0.0002 (ppm)	11.0867
10/31/2017 18:49:11	Interference Check Solution A	Cu (327.395 nm)	0.0010 (ppm)	7.97	0.0010 (ppm)	74.0422
10/31/2017 18:49:11	Interference Check Solution A	Fe (234.350 nm)	88.3031 o (ppm)	0.04	88.3031 (ppm)	986290.9493
10/31/2017 18:49:11	Interference Check Solution A	K (766.491 nm)	0.0402 (ppm)	39.04	0.0402 (ppm)	112.5109
10/31/2017 18:49:11	Interference Check Solution A	Mg (279.078 nm)	263.0468 o (ppm)	0.11	263.0468 (ppm)	507596.5570
10/31/2017 18:49:11	Interference Check Solution A	Mn (257.610 nm)	0.0017 (ppm)	4.00	0.0017 (ppm)	529.5732
10/31/2017 18:49:11	Interference Check Solution A	Mo (202.032 nm)	0.0010 (ppm)	9.45	0.0010 (ppm)	17.0742
10/31/2017 18:49:11	Interference Check Solution A	Na (588.995 nm)	0.0036 (ppm)	84.39	0.0036 (ppm)	-5294.9202
10/31/2017 18:49:11	Interference Check Solution A	Ni (230.299 nm)	-0.0024 u (ppm)	22.35	-0.0024 (ppm)	-37.0990
10/31/2017 18:49:11	Interference Check Solution A	Pb (220.353 nm)	-0.0037 u (ppm)	60.17	-0.0037 (ppm)	-2.9035
10/31/2017 18:49:11	Interference Check Solution A	Sb (217.582 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-1.3302
10/31/2017 18:49:11	Interference Check Solution A	Se (196.026 nm)	0.0027 u (ppm)	> 100.00	0.0027 (ppm)	3.0605
10/31/2017 18:49:11	Interference Check Solution A	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.0871
10/31/2017 18:49:11	Interference Check Solution A	Sr (216.596 nm)	0.0187 (ppm)	3.68	0.0187 (ppm)	264.4206
10/31/2017 18:49:11	Interference Check Solution A	Ti (336.122 nm)	0.0020 (ppm)	8.57	0.0020 (ppm)	-63.5234
10/31/2017 18:49:11	Interference Check Solution A	Tl (351.923 nm)	0.0054 (ppm)	65.52	0.0054 (ppm)	22.1308
10/31/2017 18:49:11	Interference Check Solution A	V (292.401 nm)	0.0033 K (ppm)	3.55	0.0033 (ppm)	226.3767 K
10/31/2017 18:49:11	Interference Check Solution A	Y (360.074 nm)	0.89 (Ratio)	0.58	0.89 (Ratio)	756425.06
10/31/2017 18:49:11	Interference Check Solution A	Y_R (360.074 nm)	0.89 (Ratio)	0.58	0.89 (Ratio)	757102.22
10/31/2017 18:49:11	Interference Check Solution A	Zn (213.857 nm)	0.0110 K (ppm)	2.19	0.0110 (ppm)	281.7229 K
10/31/2017 18:52:30	Interference Check Solution AB	Ag (328.068 nm)	0.2108 (ppm)	0.18	0.2108 (ppm)	14960.2165
10/31/2017 18:52:30	Interference Check Solution AB	Al (394.401 nm)	258.1980 o (ppm)	0.32	258.1980 (ppm)	3304466.2759
10/31/2017 18:52:30	Interference Check Solution AB	As (188.980 nm)	0.0979 (ppm)	7.20	0.0979 (ppm)	86.0380
10/31/2017 18:52:30	Interference Check Solution AB	B (249.772 nm)	0.0399 (ppm)	0.53	0.0399 (ppm)	1138.5698
10/31/2017 18:52:30	Interference Check Solution AB	Ba (230.424 nm)	0.5153 (ppm)	0.37	0.5153 (ppm)	17327.2760

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 18:52:30	Interference Check Solution AB	Be (313.107 nm)	0.4967 (ppm)	0.08	0.4967 (ppm)	733178.2491
10/31/2017 18:52:30	Interference Check Solution AB	Ca (227.547 nm)	260.4955 o (ppm)	0.30	260.4955 (ppm)	14669.1156
10/31/2017 18:52:30	Interference Check Solution AB	Cd (214.439 nm)	0.9495 (ppm)	0.23	0.9495 (ppm)	20570.3874
10/31/2017 18:52:30	Interference Check Solution AB	Co (230.786 nm)	0.4894 (ppm)	0.28	0.4894 (ppm)	4827.8473
10/31/2017 18:52:30	Interference Check Solution AB	Cr (267.716 nm)	0.4844 (ppm)	0.20	0.4844 (ppm)	23983.3702
10/31/2017 18:52:30	Interference Check Solution AB	Cu (327.395 nm)	0.5192 (ppm)	0.26	0.5192 (ppm)	32246.1858
10/31/2017 18:52:30	Interference Check Solution AB	Fe (234.350 nm)	87.5749 o (ppm)	0.17	87.5749 (ppm)	978157.9533
10/31/2017 18:52:30	Interference Check Solution AB	K (766.491 nm)	0.0151 (ppm)	9.40	0.0151 (ppm)	36.6554
10/31/2017 18:52:30	Interference Check Solution AB	Mg (279.078 nm)	260.7395 o (ppm)	0.17	260.7395 (ppm)	503144.0969
10/31/2017 18:52:30	Interference Check Solution AB	Mn (257.610 nm)	0.4872 (ppm)	0.15	0.4872 (ppm)	152710.4190
10/31/2017 18:52:30	Interference Check Solution AB	Mo (202.032 nm)	0.0007 (ppm)	19.11	0.0007 (ppm)	13.8915
10/31/2017 18:52:30	Interference Check Solution AB	Na (588.995 nm)	0.0111 (ppm)	5.26	0.0111 (ppm)	-4954.7422
10/31/2017 18:52:30	Interference Check Solution AB	Ni (230.299 nm)	0.9427 (ppm)	0.37	0.9427 (ppm)	6329.9384
10/31/2017 18:52:30	Interference Check Solution AB	Pb (220.353 nm)	0.0469 (ppm)	4.13	0.0469 (ppm)	105.3423
10/31/2017 18:52:30	Interference Check Solution AB	Sb (217.582 nm)	0.6045 (ppm)	0.42	0.6045 (ppm)	827.4691
10/31/2017 18:52:30	Interference Check Solution AB	Se (196.026 nm)	0.0499 (ppm)	7.86	0.0499 (ppm)	43.5269
10/31/2017 18:52:30	Interference Check Solution AB	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.6019
10/31/2017 18:52:30	Interference Check Solution AB	Sr (216.596 nm)	0.0194 (ppm)	2.64	0.0194 (ppm)	274.2486
10/31/2017 18:52:30	Interference Check Solution AB	Ti (336.122 nm)	0.0016 (ppm)	6.15	0.0016 (ppm)	-157.0270
10/31/2017 18:52:30	Interference Check Solution AB	Tl (351.923 nm)	0.1124 (ppm)	0.85	0.1124 (ppm)	315.9982
10/31/2017 18:52:30	Interference Check Solution AB	V (292.401 nm)	0.4991 (ppm)	0.07	0.4991 (ppm)	17749.7399
10/31/2017 18:52:30	Interference Check Solution AB	Y (360.074 nm)	0.89 (Ratio)	0.68	0.89 (Ratio)	760865.40
10/31/2017 18:52:30	Interference Check Solution AB	Y_R (360.074 nm)	0.89 (Ratio)	0.68	0.89 (Ratio)	761545.12
10/31/2017 18:52:30	Interference Check Solution AB	Zn (213.857 nm)	1.0121 (ppm)	0.15	1.0121 (ppm)	28287.1724
10/31/2017 18:55:50	Continuing Calibration Verification	Ag (328.068 nm)	0.4845 (ppm)	0.24	0.4845 (ppm)	34512.0908
10/31/2017 18:55:50	Continuing Calibration Verification	Al (394.401 nm)	9.5951 (ppm)	1.31	9.5951 (ppm)	122920.7219
10/31/2017 18:55:50	Continuing Calibration Verification	As (188.980 nm)	0.9414 (ppm)	1.26	0.9414 (ppm)	840.0968
10/31/2017 18:55:50	Continuing Calibration Verification	B (249.772 nm)	2.4004 (ppm)	0.24	2.4004 (ppm)	66494.3204
10/31/2017 18:55:50	Continuing Calibration Verification	Ba (230.424 nm)	10.1662 (ppm)	0.23	10.1662 (ppm)	341779.5196
10/31/2017 18:55:50	Continuing Calibration Verification	Be (313.107 nm)	0.2506 (ppm)	0.47	0.2506 (ppm)	369627.3198
10/31/2017 18:55:50	Continuing Calibration Verification	Ca (227.547 nm)	24.1928 (ppm)	1.14	24.1928 (ppm)	1366.3585
10/31/2017 18:55:50	Continuing Calibration Verification	Cd (214.439 nm)	0.4963 (ppm)	0.26	0.4963 (ppm)	10758.9171
10/31/2017 18:55:50	Continuing Calibration Verification	Co (230.786 nm)	2.5629 (ppm)	0.28	2.5629 (ppm)	25299.1703
10/31/2017 18:55:50	Continuing Calibration Verification	Cr (267.716 nm)	0.4989 (ppm)	0.24	0.4989 (ppm)	24699.4434
10/31/2017 18:55:50	Continuing Calibration Verification	Cu (327.395 nm)	1.1920 (ppm)	0.45	1.1920 (ppm)	74019.7360
10/31/2017 18:55:50	Continuing Calibration Verification	Fe (234.350 nm)	4.8924 (ppm)	0.92	4.8924 (ppm)	54656.1994
10/31/2017 18:55:50	Continuing Calibration Verification	K (766.491 nm)	24.2960 (ppm)	0.51	24.2960 (ppm)	73298.9737
10/31/2017 18:55:50	Continuing Calibration Verification	Mg (279.078 nm)	25.0431 (ppm)	0.56	25.0431 (ppm)	48324.5751
10/31/2017 18:55:50	Continuing Calibration Verification	Mn (257.610 nm)	0.7458 (ppm)	0.30	0.7458 (ppm)	233773.9268
10/31/2017 18:55:50	Continuing Calibration Verification	Mo (202.032 nm)	2.3718 (ppm)	0.25	2.3718 (ppm)	24184.4103
10/31/2017 18:55:50	Continuing Calibration Verification	Na (588.995 nm)	24.3734 (ppm)	0.55	24.3734 (ppm)	1102911.3926
10/31/2017 18:55:50	Continuing Calibration Verification	Ni (230.299 nm)	2.0144 (ppm)	0.19	2.0144 (ppm)	13549.5381
10/31/2017 18:55:50	Continuing Calibration Verification	Pb (220.353 nm)	0.4954 (ppm)	0.25	0.4954 (ppm)	1063.4940
10/31/2017 18:55:50	Continuing Calibration Verification	Sb (217.582 nm)	4.8522 (ppm)	0.56	4.8522 (ppm)	6636.3759
10/31/2017 18:55:50	Continuing Calibration Verification	Se (196.026 nm)	0.4836 (ppm)	1.16	0.4836 (ppm)	414.9293
10/31/2017 18:55:50	Continuing Calibration Verification	Sn (189.925 nm)	5.0462 (ppm)	0.22	5.0462 (ppm)	6110.6030
10/31/2017 18:55:50	Continuing Calibration Verification	Sr (216.596 nm)	2.4992 (ppm)	0.15	2.4992 (ppm)	35484.9560
10/31/2017 18:55:50	Continuing Calibration Verification	Ti (336.122 nm)	2.4748 (ppm)	0.24	2.4748 (ppm)	517340.8372
10/31/2017 18:55:50	Continuing Calibration Verification	Tl (351.923 nm)	0.9743 (ppm)	0.49	0.9743 (ppm)	2683.4204
10/31/2017 18:55:50	Continuing Calibration Verification	V (292.401 nm)	2.4898 (ppm)	0.30	2.4898 (ppm)	88116.8522
10/31/2017 18:55:50	Continuing Calibration Verification	Y (360.074 nm)	0.96 (Ratio)	0.69	0.96 (Ratio)	821294.07

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 18:55:50	Continuing Calibration Verification	Y_R (360.074 nm)	0.96 (Ratio)	0.68	0.96 (Ratio)	822068.96
10/31/2017 18:55:50	Continuing Calibration Verification	Zn (213.857 nm)	0.9942 (ppm)	0.28	0.9942 (ppm)	27787.5359
10/31/2017 18:59:09	Continuing Calibration Blank	Ag (328.068 nm)	0.0003 (ppm)	46.20	0.0003 (ppm)	-80.0609
10/31/2017 18:59:09	Continuing Calibration Blank	Al (394.401 nm)	0.0505 (ppm)	53.49	0.0505 (ppm)	772.3344
10/31/2017 18:59:09	Continuing Calibration Blank	As (188.980 nm)	0.0011 (ppm)	82.14	0.0011 (ppm)	-0.4421
10/31/2017 18:59:09	Continuing Calibration Blank	B (249.772 nm)	0.0046 (ppm)	37.91	0.0046 (ppm)	161.8618
10/31/2017 18:59:09	Continuing Calibration Blank	Ba (230.424 nm)	0.0076 (ppm)	74.83	0.0076 (ppm)	257.8152
10/31/2017 18:59:09	Continuing Calibration Blank	Be (313.107 nm)	0.0003 (ppm)	56.24	0.0003 (ppm)	-139.1428
10/31/2017 18:59:09	Continuing Calibration Blank	Ca (227.547 nm)	0.1341 (ppm)	38.53	0.1341 (ppm)	11.9636
10/31/2017 18:59:09	Continuing Calibration Blank	Cd (214.439 nm)	0.0006 (ppm)	60.98	0.0006 (ppm)	26.3982
10/31/2017 18:59:09	Continuing Calibration Blank	Co (230.786 nm)	0.0016 (ppm)	76.12	0.0016 (ppm)	12.3197
10/31/2017 18:59:09	Continuing Calibration Blank	Cr (267.716 nm)	0.0004 (ppm)	43.24	0.0004 (ppm)	16.7494
10/31/2017 18:59:09	Continuing Calibration Blank	Cu (327.395 nm)	0.0008 (ppm)	69.64	0.0008 (ppm)	64.6771
10/31/2017 18:59:09	Continuing Calibration Blank	Fe (234.350 nm)	0.0253 (ppm)	50.69	0.0253 (ppm)	294.2845
10/31/2017 18:59:09	Continuing Calibration Blank	K (766.491 nm)	0.0365 (ppm)	30.28	0.0365 (ppm)	101.2997
10/31/2017 18:59:09	Continuing Calibration Blank	Mg (279.078 nm)	0.0700 (ppm)	50.50	0.0700 (ppm)	134.4187
10/31/2017 18:59:09	Continuing Calibration Blank	Mn (257.610 nm)	0.0006 (ppm)	60.57	0.0006 (ppm)	192.8246
10/31/2017 18:59:09	Continuing Calibration Blank	Mo (202.032 nm)	0.0033 (ppm)	33.16	0.0033 (ppm)	40.8714
10/31/2017 18:59:09	Continuing Calibration Blank	Na (588.995 nm)	0.0102 (ppm)	> 100.00	0.0102 (ppm)	-4998.6198
10/31/2017 18:59:09	Continuing Calibration Blank	Ni (230.299 nm)	0.0010 (ppm)	93.79	0.0010 (ppm)	-14.1261
10/31/2017 18:59:09	Continuing Calibration Blank	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	4.4305
10/31/2017 18:59:09	Continuing Calibration Blank	Sb (217.582 nm)	0.0031 (ppm)	41.90	0.0031 (ppm)	5.0129
10/31/2017 18:59:09	Continuing Calibration Blank	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	1.1252
10/31/2017 18:59:09	Continuing Calibration Blank	Sn (189.925 nm)	0.0042 (ppm)	70.94	0.0042 (ppm)	4.9944
10/31/2017 18:59:09	Continuing Calibration Blank	Sr (216.596 nm)	0.0015 (ppm)	50.05	0.0015 (ppm)	21.2871
10/31/2017 18:59:09	Continuing Calibration Blank	Tl (336.122 nm)	0.0025 (ppm)	39.15	0.0025 (ppm)	35.1386
10/31/2017 18:59:09	Continuing Calibration Blank	Tl (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	8.1176
10/31/2017 18:59:09	Continuing Calibration Blank	V (292.401 nm)	0.0016 (ppm)	65.58	0.0016 (ppm)	166.6594
10/31/2017 18:59:09	Continuing Calibration Blank	Y (360.074 nm)	1.00 (Ratio)	0.62	1.00 (Ratio)	853356.01
10/31/2017 18:59:09	Continuing Calibration Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.62	1.00 (Ratio)	854195.81
10/31/2017 18:59:09	Continuing Calibration Blank	Zn (213.857 nm)	0.0009 (ppm)	54.41	0.0009 (ppm)	-2.1376
10/31/2017 19:02:28	PBW-301737	Ag (328.068 nm)	0.0001 (ppm)	80.42	0.0001 (ppm)	-95.5811
10/31/2017 19:02:28	PBW-301737	Al (394.401 nm)	0.0145 (ppm)	19.74	0.0145 (ppm)	311.4250
10/31/2017 19:02:28	PBW-301737	As (188.980 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.4553
10/31/2017 19:02:28	PBW-301737	B (249.772 nm)	0.0018 (ppm)	2.88	0.0018 (ppm)	84.2294
10/31/2017 19:02:28	PBW-301737	Ba (230.424 nm)	0.0006 (ppm)	23.91	0.0006 (ppm)	23.2935
10/31/2017 19:02:28	PBW-301737	Be (313.107 nm)	0.0000 (ppm)	27.94	0.0000 (ppm)	-468.8862
10/31/2017 19:02:28	PBW-301737	Ca (227.547 nm)	0.0048 u (ppm)	> 100.00	0.0048 (ppm)	4.6825
10/31/2017 19:02:28	PBW-301737	Cd (214.439 nm)	0.0000 u (ppm)	38.96	0.0000 (ppm)	12.5433
10/31/2017 19:02:28	PBW-301737	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.2469
10/31/2017 19:02:28	PBW-301737	Cr (267.716 nm)	0.0004 (ppm)	17.08	0.0004 (ppm)	19.5218
10/31/2017 19:02:28	PBW-301737	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	21.7875
10/31/2017 19:02:28	PBW-301737	Fe (234.350 nm)	0.0174 (ppm)	9.48	0.0174 (ppm)	206.2646
10/31/2017 19:02:28	PBW-301737	K (766.491 nm)	0.0151 (ppm)	8.34	0.0151 (ppm)	36.6167
10/31/2017 19:02:28	PBW-301737	Mg (279.078 nm)	0.0141 (ppm)	29.91	0.0141 (ppm)	26.5769
10/31/2017 19:02:28	PBW-301737	Mn (257.610 nm)	0.0005 (ppm)	3.70	0.0005 (ppm)	150.0201
10/31/2017 19:02:28	PBW-301737	Mo (202.032 nm)	0.0003 (ppm)	38.84	0.0003 (ppm)	10.4014
10/31/2017 19:02:28	PBW-301737	Na (588.995 nm)	0.0080 (ppm)	8.71	0.0080 (ppm)	-5098.5604
10/31/2017 19:02:28	PBW-301737	Ni (230.299 nm)	0.0002 (ppm)	31.68	0.0002 (ppm)	-18.9948
10/31/2017 19:02:28	PBW-301737	Pb (220.353 nm)	-0.0014 u (ppm)	80.85	-0.0014 (ppm)	2.1240
10/31/2017 19:02:28	PBW-301737	Sb (217.582 nm)	0.0013 (ppm)	58.60	0.0013 (ppm)	2.5826

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:02:28	PBW-301737	Se (196.026 nm)	-0.0032 u (ppm)	81.84	-0.0032 (ppm)	-1.9730
10/31/2017 19:02:28	PBW-301737	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.6424
10/31/2017 19:02:28	PBW-301737	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.8060
10/31/2017 19:02:28	PBW-301737	Ti (336.122 nm)	0.0009 (ppm)	6.87	0.0009 (ppm)	-285.0023
10/31/2017 19:02:28	PBW-301737	Tl (351.923 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	6.3064
10/31/2017 19:02:28	PBW-301737	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	112.2015
10/31/2017 19:02:28	PBW-301737	Y (360.074 nm)	1.01 (Ratio)	0.62	1.01 (Ratio)	865010.70
10/31/2017 19:02:28	PBW-301737	Y_R (360.074 nm)	1.01 (Ratio)	0.62	1.01 (Ratio)	865875.64
10/31/2017 19:02:28	PBW-301737	Zn (213.857 nm)	0.0039 (ppm)	3.56	0.0039 (ppm)	81.7135
10/31/2017 19:05:47	LCSW-301737	Ag (328.068 nm)	0.0496 (ppm)	0.20	0.0496 (ppm)	3441.1032
10/31/2017 19:05:47	LCSW-301737	Al (394.401 nm)	1.8649 (ppm)	0.54	1.8649 (ppm)	23992.0454
10/31/2017 19:05:47	LCSW-301737	As (188.980 nm)	0.0366 (ppm)	2.80	0.0366 (ppm)	31.2244
10/31/2017 19:05:47	LCSW-301737	B (249.772 nm)	0.9691 (ppm)	0.24	0.9691 (ppm)	26866.7366
10/31/2017 19:05:47	LCSW-301737	Ba (230.424 nm)	2.0698 (ppm)	0.55	2.0698 (ppm)	69587.7542
10/31/2017 19:05:47	LCSW-301737	Be (313.107 nm)	0.0502 (ppm)	0.25	0.0502 (ppm)	73654.0710
10/31/2017 19:05:47	LCSW-301737	Ca (227.547 nm)	1.9582 (ppm)	1.71	1.9582 (ppm)	114.6512
10/31/2017 19:05:47	LCSW-301737	Cd (214.439 nm)	0.0514 (ppm)	0.56	0.0514 (ppm)	1126.2181
10/31/2017 19:05:47	LCSW-301737	Co (230.786 nm)	0.5146 (ppm)	0.34	0.5146 (ppm)	5076.6060
10/31/2017 19:05:47	LCSW-301737	Cr (267.716 nm)	0.1987 (ppm)	0.33	0.1987 (ppm)	9837.6038
10/31/2017 19:05:47	LCSW-301737	Cu (327.395 nm)	0.2438 (ppm)	0.63	0.2438 (ppm)	15146.6361
10/31/2017 19:05:47	LCSW-301737	Fe (234.350 nm)	0.9827 (ppm)	0.41	0.9827 (ppm)	10987.7730
10/31/2017 19:05:47	LCSW-301737	K (766.491 nm)	19.1824 (ppm)	0.46	19.1824 (ppm)	57869.7829
10/31/2017 19:05:47	LCSW-301737	Mg (279.078 nm)	2.0075 (ppm)	0.35	2.0075 (ppm)	3873.1951
10/31/2017 19:05:47	LCSW-301737	Mn (257.610 nm)	0.4960 (ppm)	0.27	0.4960 (ppm)	155464.7935
10/31/2017 19:05:47	LCSW-301737	Mo (202.032 nm)	0.4768 (ppm)	0.28	0.4768 (ppm)	4867.2634
10/31/2017 19:05:47	LCSW-301737	Na (588.995 nm)	19.4967 (ppm)	0.66	19.4967 (ppm)	881145.4552
10/31/2017 19:05:47	LCSW-301737	Ni (230.299 nm)	0.5121 (ppm)	0.34	0.5121 (ppm)	3429.3605
10/31/2017 19:05:47	LCSW-301737	Pb (220.353 nm)	0.5144 (ppm)	0.30	0.5144 (ppm)	1104.1603
10/31/2017 19:05:47	LCSW-301737	Sb (217.582 nm)	0.4989 (ppm)	0.64	0.4989 (ppm)	683.1288
10/31/2017 19:05:47	LCSW-301737	Se (196.026 nm)	1.0517 (ppm)	0.27	1.0517 (ppm)	901.4623
10/31/2017 19:05:47	LCSW-301737	Sn (189.925 nm)	5.0588 (ppm)	0.55	5.0588 (ppm)	6125.9030
10/31/2017 19:05:47	LCSW-301737	Sr (216.596 nm)	2.0349 (ppm)	0.61	2.0349 (ppm)	28892.4829
10/31/2017 19:05:47	LCSW-301737	Ti (336.122 nm)	0.4908 (ppm)	0.37	0.4908 (ppm)	102204.0813
10/31/2017 19:05:47	LCSW-301737	Tl (351.923 nm)	1.8740 (ppm)	0.43	1.8740 (ppm)	5154.5533
10/31/2017 19:05:47	LCSW-301737	V (292.401 nm)	0.4993 (ppm)	0.26	0.4993 (ppm)	17756.3793
10/31/2017 19:05:47	LCSW-301737	Y (360.074 nm)	0.98 (Ratio)	0.64	0.98 (Ratio)	838221.75
10/31/2017 19:05:47	LCSW-301737	Y_R (360.074 nm)	0.98 (Ratio)	0.64	0.98 (Ratio)	839023.07
10/31/2017 19:05:47	LCSW-301737	Zn (213.857 nm)	0.5100 (ppm)	0.12	0.5100 (ppm)	14239.7317
10/31/2017 19:09:07	R1710018-001	Ag (328.068 nm)	0.0001 (ppm)	48.83	0.0001 (ppm)	-96.5800
10/31/2017 19:09:07	R1710018-001	Al (394.401 nm)	0.2857 (ppm)	2.31	0.2857 (ppm)	3781.9392
10/31/2017 19:09:07	R1710018-001	As (188.980 nm)	-0.0021 u (ppm)	54.98	-0.0021 (ppm)	-3.3217
10/31/2017 19:09:07	R1710018-001	B (249.772 nm)	0.0263 (ppm)	2.76	0.0263 (ppm)	761.2436
10/31/2017 19:09:07	R1710018-001	Ba (230.424 nm)	0.0123 (ppm)	9.52	0.0123 (ppm)	414.3354
10/31/2017 19:09:07	R1710018-001	Be (313.107 nm)	0.0001 (ppm)	25.81	0.0001 (ppm)	-382.2707
10/31/2017 19:09:07	R1710018-001	Ca (227.547 nm)	52.5406 (ppm)	0.47	52.5406 (ppm)	2962.2085
10/31/2017 19:09:07	R1710018-001	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.0683
10/31/2017 19:09:07	R1710018-001	Co (230.786 nm)	0.0009 (ppm)	23.41	0.0009 (ppm)	5.5562
10/31/2017 19:09:07	R1710018-001	Cr (267.716 nm)	0.0013 (ppm)	6.99	0.0013 (ppm)	60.8966
10/31/2017 19:09:07	R1710018-001	Cu (327.395 nm)	0.0009 (ppm)	33.38	0.0009 (ppm)	66.6417
10/31/2017 19:09:07	R1710018-001	Fe (234.350 nm)	0.2889 (ppm)	0.75	0.2889 (ppm)	3238.2398
10/31/2017 19:09:07	R1710018-001	K (766.491 nm)	2.1913 (ppm)	1.38	2.1913 (ppm)	6602.8726

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:09:07	R1710018-001	Mg (279.078 nm)	3.2848 (ppm)	0.51	3.2848 (ppm)	6337.9343
10/31/2017 19:09:07	R1710018-001	Mn (257.610 nm)	0.9959 (ppm)	0.32	0.9959 (ppm)	312153.4475
10/31/2017 19:09:07	R1710018-001	Mo (202.032 nm)	0.0010 (ppm)	11.47	0.0010 (ppm)	17.0519
10/31/2017 19:09:07	R1710018-001	Na (588.995 nm)	100.3885 o (ppm)	0.37	100.3885 (ppm)	4559680.5169
10/31/2017 19:09:07	R1710018-001	Ni (230.299 nm)	-0.0028 u (ppm)	30.17	-0.0028 (ppm)	-39.6125
10/31/2017 19:09:07	R1710018-001	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	3.3585
10/31/2017 19:09:07	R1710018-001	Sb (217.582 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	2.3922
10/31/2017 19:09:07	R1710018-001	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	0.5895
10/31/2017 19:09:07	R1710018-001	Sn (189.925 nm)	0.0047 (ppm)	48.32	0.0047 (ppm)	5.5608
10/31/2017 19:09:07	R1710018-001	Sr (216.596 nm)	0.1986 (ppm)	0.06	0.1986 (ppm)	2819.3033
10/31/2017 19:09:07	R1710018-001	Ti (336.122 nm)	0.0162 (ppm)	1.78	0.0162 (ppm)	2900.9786
10/31/2017 19:09:07	R1710018-001	Tl (351.923 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	10.6628
10/31/2017 19:09:07	R1710018-001	V (292.401 nm)	0.0011 (ppm)	7.54	0.0011 (ppm)	148.0328
10/31/2017 19:09:07	R1710018-001	Y (360.074 nm)	0.95 (Ratio)	0.55	0.95 (Ratio)	814752.35
10/31/2017 19:09:07	R1710018-001	Y_R (360.074 nm)	0.95 (Ratio)	0.55	0.95 (Ratio)	815502.89
10/31/2017 19:09:07	R1710018-001	Zn (213.857 nm)	0.0068 (ppm)	4.56	0.0068 (ppm)	164.1360
10/31/2017 19:12:27	R1710018-002	Ag (328.068 nm)	0.0001 (ppm)	18.02	0.0001 (ppm)	-96.2884
10/31/2017 19:12:27	R1710018-002	Al (394.401 nm)	0.2891 (ppm)	0.74	0.2891 (ppm)	3825.2923
10/31/2017 19:12:27	R1710018-002	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.4073
10/31/2017 19:12:27	R1710018-002	B (249.772 nm)	0.0247 (ppm)	1.20	0.0247 (ppm)	718.4898
10/31/2017 19:12:27	R1710018-002	Ba (230.424 nm)	0.0106 (ppm)	0.51	0.0106 (ppm)	357.5761
10/31/2017 19:12:27	R1710018-002	Be (313.107 nm)	0.0000 (ppm)	33.66	0.0000 (ppm)	-484.6493
10/31/2017 19:12:27	R1710018-002	Ca (227.547 nm)	53.0036 (ppm)	0.31	53.0036 (ppm)	2988.2750
10/31/2017 19:12:27	R1710018-002	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.7878
10/31/2017 19:12:27	R1710018-002	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.0933
10/31/2017 19:12:27	R1710018-002	Cr (267.716 nm)	0.0010 (ppm)	4.04	0.0010 (ppm)	49.3753
10/31/2017 19:12:27	R1710018-002	Cu (327.395 nm)	0.0007 (ppm)	0.60	0.0007 (ppm)	53.7821
10/31/2017 19:12:27	R1710018-002	Fe (234.350 nm)	0.3060 (ppm)	0.34	0.3060 (ppm)	3429.9372
10/31/2017 19:12:27	R1710018-002	K (766.491 nm)	2.1887 (ppm)	0.51	2.1887 (ppm)	6594.9554
10/31/2017 19:12:27	R1710018-002	Mg (279.078 nm)	3.2888 (ppm)	0.64	3.2888 (ppm)	6345.6698
10/31/2017 19:12:27	R1710018-002	Mn (257.610 nm)	1.0041 (ppm)	0.24	1.0041 (ppm)	314725.3922
10/31/2017 19:12:27	R1710018-002	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	8.6205
10/31/2017 19:12:27	R1710018-002	Na (588.995 nm)	101.5960 o (ppm)	0.35	101.5960 (ppm)	4614591.3006
10/31/2017 19:12:27	R1710018-002	Ni (230.299 nm)	-0.0037 u (ppm)	24.27	-0.0037 (ppm)	-45.8067
10/31/2017 19:12:27	R1710018-002	Pb (220.353 nm)	-0.0009 u (ppm)	71.87	-0.0009 (ppm)	3.1105
10/31/2017 19:12:27	R1710018-002	Sb (217.582 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	2.3794
10/31/2017 19:12:27	R1710018-002	Se (196.026 nm)	0.0031 u (ppm)	> 100.00	0.0031 (ppm)	3.4267
10/31/2017 19:12:27	R1710018-002	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-0.6385
10/31/2017 19:12:27	R1710018-002	Sr (216.596 nm)	0.1978 (ppm)	0.33	0.1978 (ppm)	2807.8816
10/31/2017 19:12:27	R1710018-002	Ti (336.122 nm)	0.0164 (ppm)	0.76	0.0164 (ppm)	2946.7381
10/31/2017 19:12:27	R1710018-002	Tl (351.923 nm)	-0.0024 u (ppm)	97.15	-0.0024 (ppm)	0.5772
10/31/2017 19:12:27	R1710018-002	V (292.401 nm)	0.0006 (ppm)	38.70	0.0006 (ppm)	128.7461
10/31/2017 19:12:27	R1710018-002	Y (360.074 nm)	0.96 (Ratio)	0.70	0.96 (Ratio)	819477.59
10/31/2017 19:12:27	R1710018-002	Y_R (360.074 nm)	0.96 (Ratio)	0.70	0.96 (Ratio)	820222.53
10/31/2017 19:12:27	R1710018-002	Zn (213.857 nm)	0.0082 (ppm)	1.36	0.0082 (ppm)	202.1171
10/31/2017 19:15:46	R1710018-003 100X	Ag (328.068 nm)	-0.0003 u (ppm)	15.35	-0.0003 (ppm)	-128.2823
10/31/2017 19:15:46	R1710018-003 100X	Al (394.401 nm)	0.0082 (ppm)	16.96	0.0082 (ppm)	231.0850
10/31/2017 19:15:46	R1710018-003 100X	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.7272
10/31/2017 19:15:46	R1710018-003 100X	B (249.772 nm)	0.0001 (ppm)	64.98	0.0001 (ppm)	36.1234
10/31/2017 19:15:46	R1710018-003 100X	Ba (230.424 nm)	0.0007 (ppm)	21.09	0.0007 (ppm)	25.5409
10/31/2017 19:15:46	R1710018-003 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-509.0813

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:15:46	R1710018-003 100X	Ca (227.547 nm)	1.2834 (ppm)	5.25	1.2834 (ppm)	76.6640
10/31/2017 19:15:46	R1710018-003 100X	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	14.2255
10/31/2017 19:15:46	R1710018-003 100X	Co (230.786 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	-1.8814
10/31/2017 19:15:46	R1710018-003 100X	Cr (267.716 nm)	-0.0070 u (ppm)	2.30	-0.0070 (ppm)	-345.5087
10/31/2017 19:15:46	R1710018-003 100X	Cu (327.395 nm)	0.0002 (ppm)	17.31	0.0002 (ppm)	24.3030
10/31/2017 19:15:46	R1710018-003 100X	Fe (234.350 nm)	0.0081 (ppm)	9.33	0.0081 (ppm)	102.5199
10/31/2017 19:15:46	R1710018-003 100X	K (766.491 nm)	0.1232 (ppm)	5.91	0.1232 (ppm)	362.8985
10/31/2017 19:15:46	R1710018-003 100X	Mg (279.078 nm)	0.1265 (ppm)	0.94	0.1265 (ppm)	243.4100
10/31/2017 19:15:46	R1710018-003 100X	Mn (257.610 nm)	21.4072 o (ppm)	1.01	21.4072 (ppm)	6709866.6987
10/31/2017 19:15:46	R1710018-003 100X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	7.4226
10/31/2017 19:15:46	R1710018-003 100X	Na (588.995 nm)	13.0256 (ppm)	0.89	13.0256 (ppm)	586876.1575
10/31/2017 19:15:46	R1710018-003 100X	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-20.2896
10/31/2017 19:15:46	R1710018-003 100X	Pb (220.353 nm)	0.0022 (ppm)	97.26	0.0022 (ppm)	9.7386
10/31/2017 19:15:46	R1710018-003 100X	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.3362
10/31/2017 19:15:46	R1710018-003 100X	Se (196.026 nm)	0.0134 (ppm)	29.66	0.0134 (ppm)	12.2595
10/31/2017 19:15:46	R1710018-003 100X	Sn (189.925 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	0.9958
10/31/2017 19:15:46	R1710018-003 100X	Sr (216.596 nm)	0.0056 (ppm)	2.19	0.0056 (ppm)	78.4667
10/31/2017 19:15:46	R1710018-003 100X	Ti (336.122 nm)	0.0003 (ppm)	43.89	0.0003 (ppm)	-416.6573
10/31/2017 19:15:46	R1710018-003 100X	Tl (351.923 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	9.8910
10/31/2017 19:15:46	R1710018-003 100X	V (292.401 nm)	0.0002 (ppm)	39.65	0.0002 (ppm)	115.6861
10/31/2017 19:15:46	R1710018-003 100X	Y (360.074 nm)	0.99 (Ratio)	0.58	0.99 (Ratio)	847679.89
10/31/2017 19:15:46	R1710018-003 100X	Y_R (360.074 nm)	0.99 (Ratio)	0.59	0.99 (Ratio)	848489.96
10/31/2017 19:15:46	R1710018-003 100X	Zn (213.857 nm)	0.0046 (ppm)	1.18	0.0046 (ppm)	102.0083
10/31/2017 19:19:06	R1710018-004	Ag (328.068 nm)	0.0001 (ppm)	29.27	0.0001 (ppm)	-83.7871
10/31/2017 19:19:06	R1710018-004	Al (394.401 nm)	0.2820 (ppm)	0.33	0.2820 (ppm)	3734.8481
10/31/2017 19:19:06	R1710018-004	As (188.980 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.2207
10/31/2017 19:19:06	R1710018-004	B (249.772 nm)	0.0274 (ppm)	0.86	0.0274 (ppm)	791.3277
10/31/2017 19:19:06	R1710018-004	Ba (230.424 nm)	0.0275 (ppm)	0.20	0.0275 (ppm)	927.4311
10/31/2017 19:19:06	R1710018-004	Be (313.107 nm)	0.0000 (ppm)	50.56	0.0000 (ppm)	-510.9586
10/31/2017 19:19:06	R1710018-004	Ca (227.547 nm)	50.6572 (ppm)	0.34	50.6572 (ppm)	2856.1810
10/31/2017 19:19:06	R1710018-004	Cd (214.439 nm)	-0.0002 u (ppm)	38.17	-0.0002 (ppm)	10.2400
10/31/2017 19:19:06	R1710018-004	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-4.0133
10/31/2017 19:19:06	R1710018-004	Cr (267.716 nm)	0.0014 (ppm)	14.66	0.0014 (ppm)	65.9096
10/31/2017 19:19:06	R1710018-004	Cu (327.395 nm)	0.0010 (ppm)	10.15	0.0010 (ppm)	74.2195
10/31/2017 19:19:06	R1710018-004	Fe (234.350 nm)	0.3257 (ppm)	0.34	0.3257 (ppm)	3649.5812
10/31/2017 19:19:06	R1710018-004	K (766.491 nm)	1.7837 (ppm)	0.34	1.7837 (ppm)	5373.0349
10/31/2017 19:19:06	R1710018-004	Mg (279.078 nm)	2.4754 (ppm)	0.34	2.4754 (ppm)	4776.1411
10/31/2017 19:19:06	R1710018-004	Mn (257.610 nm)	1.7962 o (ppm)	0.16	1.7962 (ppm)	562997.8077
10/31/2017 19:19:06	R1710018-004	Mo (202.032 nm)	0.0004 (ppm)	54.64	0.0004 (ppm)	10.7568
10/31/2017 19:19:06	R1710018-004	Na (588.995 nm)	118.3902 o (ppm)	0.65	118.3902 (ppm)	5378299.9024
10/31/2017 19:19:06	R1710018-004	Ni (230.299 nm)	-0.0018 u (ppm)	33.32	-0.0018 (ppm)	-33.0299
10/31/2017 19:19:06	R1710018-004	Pb (220.353 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	6.2632
10/31/2017 19:19:06	R1710018-004	Sb (217.582 nm)	0.0020 (ppm)	90.56	0.0020 (ppm)	3.5103
10/31/2017 19:19:06	R1710018-004	Se (196.026 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	1.8293
10/31/2017 19:19:06	R1710018-004	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.0918
10/31/2017 19:19:06	R1710018-004	Sr (216.596 nm)	0.1455 (ppm)	0.51	0.1455 (ppm)	2064.5831
10/31/2017 19:19:06	R1710018-004	Ti (336.122 nm)	0.0149 (ppm)	0.87	0.0149 (ppm)	2633.5613
10/31/2017 19:19:06	R1710018-004	Tl (351.923 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	2.8897
10/31/2017 19:19:06	R1710018-004	V (292.401 nm)	0.0008 (ppm)	18.94	0.0008 (ppm)	137.6273
10/31/2017 19:19:06	R1710018-004	Y (360.074 nm)	0.95 (Ratio)	0.62	0.95 (Ratio)	811661.82
10/31/2017 19:19:06	R1710018-004	Y_R (360.074 nm)	0.95 (Ratio)	0.62	0.95 (Ratio)	812379.58

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:19:06	R1710018-004	Zn (213.857 nm)	0.0094 (ppm)	2.10	0.0094 (ppm)	235.3144
10/31/2017 19:22:25	R1710018-005	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-99.8440
10/31/2017 19:22:25	R1710018-005	Al (394.401 nm)	0.4483 (ppm)	0.56	0.4483 (ppm)	5863.3964
10/31/2017 19:22:25	R1710018-005	As (188.980 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-0.8564
10/31/2017 19:22:25	R1710018-005	B (249.772 nm)	0.0246 (ppm)	0.36	0.0246 (ppm)	715.4115
10/31/2017 19:22:25	R1710018-005	Ba (230.424 nm)	0.0265 (ppm)	0.92	0.0265 (ppm)	893.4048
10/31/2017 19:22:25	R1710018-005	Be (313.107 nm)	0.0000 (ppm)	75.63	0.0000 (ppm)	-499.1542
10/31/2017 19:22:25	R1710018-005	Ca (227.547 nm)	71.7336 o (ppm)	0.49	71.7336 (ppm)	4042.6867
10/31/2017 19:22:25	R1710018-005	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.4912
10/31/2017 19:22:25	R1710018-005	Co (230.786 nm)	0.0003 (ppm)	14.28	0.0003 (ppm)	-0.5955
10/31/2017 19:22:25	R1710018-005	Cr (267.716 nm)	0.0024 (ppm)	6.47	0.0024 (ppm)	117.4311
10/31/2017 19:22:25	R1710018-005	Cu (327.395 nm)	0.0006 (ppm)	8.85	0.0006 (ppm)	51.4364
10/31/2017 19:22:25	R1710018-005	Fe (234.350 nm)	0.4972 (ppm)	0.39	0.4972 (ppm)	5564.9619
10/31/2017 19:22:25	R1710018-005	K (766.491 nm)	2.3279 (ppm)	0.89	2.3279 (ppm)	7015.1422
10/31/2017 19:22:25	R1710018-005	Mg (279.078 nm)	4.7926 (ppm)	0.37	4.7926 (ppm)	9247.4482
10/31/2017 19:22:25	R1710018-005	Mn (257.610 nm)	0.0383 (ppm)	10.64	0.0383 (ppm)	11995.9958
10/31/2017 19:22:25	R1710018-005	Mo (202.032 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	7.8876
10/31/2017 19:22:25	R1710018-005	Na (588.995 nm)	105.7623 o (ppm)	0.63	105.7623 (ppm)	4804049.8498
10/31/2017 19:22:25	R1710018-005	Ni (230.299 nm)	-0.0057 u (ppm)	21.54	-0.0057 (ppm)	-58.9892
10/31/2017 19:22:25	R1710018-005	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.2293
10/31/2017 19:22:25	R1710018-005	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	1.1160
10/31/2017 19:22:25	R1710018-005	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	0.2146
10/31/2017 19:22:25	R1710018-005	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.4573
10/31/2017 19:22:25	R1710018-005	Sr (216.596 nm)	0.2605 (ppm)	0.50	0.2605 (ppm)	3698.1793
10/31/2017 19:22:25	R1710018-005	Ti (336.122 nm)	0.0257 (ppm)	2.15	0.0257 (ppm)	4889.5702
10/31/2017 19:22:25	R1710018-005	Tl (351.923 nm)	0.0025 (ppm)	57.97	0.0025 (ppm)	14.0938
10/31/2017 19:22:25	R1710018-005	V (292.401 nm)	0.0010 (ppm)	9.27	0.0010 (ppm)	145.2499
10/31/2017 19:22:25	R1710018-005	Y (360.074 nm)	0.95 (Ratio)	0.51	0.95 (Ratio)	809002.90
10/31/2017 19:22:25	R1710018-005	Y_R (360.074 nm)	0.95 (Ratio)	0.51	0.95 (Ratio)	809734.19
10/31/2017 19:22:25	R1710018-005	Zn (213.857 nm)	0.0094 (ppm)	1.27	0.0094 (ppm)	237.5621
10/31/2017 19:25:43	R1710018-005S	Ag (328.068 nm)	0.0522 (ppm)	0.56	0.0522 (ppm)	3623.4889
10/31/2017 19:25:43	R1710018-005S	Al (394.401 nm)	2.6579 (ppm)	0.59	2.6579 (ppm)	34140.2580
10/31/2017 19:25:43	R1710018-005S	As (188.980 nm)	0.0454 (ppm)	10.11	0.0454 (ppm)	39.1530
10/31/2017 19:25:43	R1710018-005S	B (249.772 nm)	1.0615 (ppm)	0.37	1.0615 (ppm)	29422.9718
10/31/2017 19:25:43	R1710018-005S	Ba (230.424 nm)	2.1492 (ppm)	0.55	2.1492 (ppm)	72256.8062
10/31/2017 19:25:43	R1710018-005S	Be (313.107 nm)	0.0530 (ppm)	0.54	0.0530 (ppm)	77696.0270
10/31/2017 19:25:43	R1710018-005S	Ca (227.547 nm)	77.1204 o (ppm)	0.61	77.1204 (ppm)	4345.9402
10/31/2017 19:25:43	R1710018-005S	Cd (214.439 nm)	0.0528 (ppm)	0.54	0.0528 (ppm)	1156.1547
10/31/2017 19:25:43	R1710018-005S	Co (230.786 nm)	0.5294 (ppm)	0.37	0.5294 (ppm)	5223.2653
10/31/2017 19:25:43	R1710018-005S	Cr (267.716 nm)	0.2088 (ppm)	0.31	0.2088 (ppm)	10335.8108
10/31/2017 19:25:43	R1710018-005S	Cu (327.395 nm)	0.2584 (ppm)	0.40	0.2584 (ppm)	16056.3738
10/31/2017 19:25:43	R1710018-005S	Fe (234.350 nm)	1.6382 (ppm)	0.43	1.6382 (ppm)	18309.5945
10/31/2017 19:25:43	R1710018-005S	K (766.491 nm)	23.9274 (ppm)	0.75	23.9274 (ppm)	72187.0697
10/31/2017 19:25:43	R1710018-005S	Mg (279.078 nm)	7.0769 (ppm)	0.45	7.0769 (ppm)	13655.5337
10/31/2017 19:25:43	R1710018-005S	Mn (257.610 nm)	0.5489 (ppm)	0.28	0.5489 (ppm)	172042.7220
10/31/2017 19:25:43	R1710018-005S	Mo (202.032 nm)	0.5006 (ppm)	0.38	0.5006 (ppm)	5109.7712
10/31/2017 19:25:43	R1710018-005S	Na (588.995 nm)	128.4642 o (ppm)	1.00	128.4642 (ppm)	5836412.4222
10/31/2017 19:25:43	R1710018-005S	Ni (230.299 nm)	0.5191 (ppm)	0.51	0.5191 (ppm)	3476.5642
10/31/2017 19:25:43	R1710018-005S	Pb (220.353 nm)	0.5268 (ppm)	0.48	0.5268 (ppm)	1130.6110
10/31/2017 19:25:43	R1710018-005S	Sb (217.582 nm)	0.5303 (ppm)	0.96	0.5303 (ppm)	726.0593
10/31/2017 19:25:43	R1710018-005S	Se (196.026 nm)	1.1204 o (ppm)	0.56	1.1204 (ppm)	960.2918

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:25:43	R1710018-005S	Sn (189.925 nm)	5.3354 (ppm)	0.74	5.3354 (ppm)	6460.8510
10/31/2017 19:25:43	R1710018-005S	Sr (216.596 nm)	2.3491 (ppm)	0.19	2.3491 (ppm)	33353.0497
10/31/2017 19:25:43	R1710018-005S	Ti (336.122 nm)	0.5360 (ppm)	0.59	0.5360 (ppm)	111672.9407
10/31/2017 19:25:43	R1710018-005S	Tl (351.923 nm)	2.0384 (ppm)	0.25	2.0384 (ppm)	5606.1264
10/31/2017 19:25:43	R1710018-005S	V (292.401 nm)	0.5252 (ppm)	0.54	0.5252 (ppm)	18671.9725
10/31/2017 19:25:43	R1710018-005S	Y (360.074 nm)	0.90 (Ratio)	0.84	0.90 (Ratio)	770535.10
10/31/2017 19:25:43	R1710018-005S	Y_R (360.074 nm)	0.90 (Ratio)	0.84	0.90 (Ratio)	771205.53
10/31/2017 19:25:43	R1710018-005S	Zn (213.857 nm)	0.5440 (ppm)	0.59	0.5440 (ppm)	15192.2828
10/31/2017 19:29:03	R1710018-005SD	Ag (328.068 nm)	0.0513 (ppm)	0.73	0.0513 (ppm)	3562.2924
10/31/2017 19:29:03	R1710018-005SD	Al (394.401 nm)	2.4341 (ppm)	0.48	2.4341 (ppm)	31277.0810
10/31/2017 19:29:03	R1710018-005SD	As (188.980 nm)	0.0433 (ppm)	8.10	0.0433 (ppm)	37.2851
10/31/2017 19:29:03	R1710018-005SD	B (249.772 nm)	1.0406 (ppm)	0.34	1.0406 (ppm)	28844.7119
10/31/2017 19:29:03	R1710018-005SD	Ba (230.424 nm)	2.1028 (ppm)	0.42	2.1028 (ppm)	70697.4682
10/31/2017 19:29:03	R1710018-005SD	Be (313.107 nm)	0.0519 (ppm)	0.45	0.0519 (ppm)	76112.9818
10/31/2017 19:29:03	R1710018-005SD	Ca (227.547 nm)	75.3723 o (ppm)	0.70	75.3723 (ppm)	4247.5298
10/31/2017 19:29:03	R1710018-005SD	Cd (214.439 nm)	0.0519 (ppm)	0.58	0.0519 (ppm)	1137.2967
10/31/2017 19:29:03	R1710018-005SD	Co (230.786 nm)	0.5187 (ppm)	0.55	0.5187 (ppm)	5117.5707
10/31/2017 19:29:03	R1710018-005SD	Cr (267.716 nm)	0.2043 (ppm)	0.34	0.2043 (ppm)	10112.4419
10/31/2017 19:29:03	R1710018-005SD	Cu (327.395 nm)	0.2528 (ppm)	0.44	0.2528 (ppm)	15709.0266
10/31/2017 19:29:03	R1710018-005SD	Fe (234.350 nm)	1.4605 (ppm)	0.43	1.4605 (ppm)	16324.2023
10/31/2017 19:29:03	R1710018-005SD	K (766.491 nm)	23.4453 (ppm)	0.57	23.4453 (ppm)	70732.2552
10/31/2017 19:29:03	R1710018-005SD	Mg (279.078 nm)	6.8902 (ppm)	0.41	6.8902 (ppm)	13295.3229
10/31/2017 19:29:03	R1710018-005SD	Mn (257.610 nm)	0.5329 (ppm)	0.28	0.5329 (ppm)	167036.4037
10/31/2017 19:29:03	R1710018-005SD	Mo (202.032 nm)	0.4914 (ppm)	0.46	0.4914 (ppm)	5015.9843
10/31/2017 19:29:03	R1710018-005SD	Na (588.995 nm)	125.4129 o (ppm)	0.57	125.4129 (ppm)	5697655.4703
10/31/2017 19:29:03	R1710018-005SD	Ni (230.299 nm)	0.5113 (ppm)	0.83	0.5113 (ppm)	3424.0384
10/31/2017 19:29:03	R1710018-005SD	Pb (220.353 nm)	0.5164 (ppm)	0.45	0.5164 (ppm)	1108.3392
10/31/2017 19:29:03	R1710018-005SD	Sb (217.582 nm)	0.5229 (ppm)	0.49	0.5229 (ppm)	715.8939
10/31/2017 19:29:03	R1710018-005SD	Se (196.026 nm)	1.1073 o (ppm)	0.69	1.1073 (ppm)	949.0896
10/31/2017 19:29:03	R1710018-005SD	Sn (189.925 nm)	5.2145 (ppm)	0.29	5.2145 (ppm)	6314.4448
10/31/2017 19:29:03	R1710018-005SD	Sr (216.596 nm)	2.2966 (ppm)	0.75	2.2966 (ppm)	32608.2062
10/31/2017 19:29:03	R1710018-005SD	Ti (336.122 nm)	0.5189 (ppm)	0.49	0.5189 (ppm)	108087.2063
10/31/2017 19:29:03	R1710018-005SD	Tl (351.923 nm)	1.9970 (ppm)	0.60	1.9970 (ppm)	5492.3974
10/31/2017 19:29:03	R1710018-005SD	V (292.401 nm)	0.5149 (ppm)	0.45	0.5149 (ppm)	18310.1218
10/31/2017 19:29:03	R1710018-005SD	Y (360.074 nm)	0.92 (Ratio)	0.91	0.92 (Ratio)	781943.77
10/31/2017 19:29:03	R1710018-005SD	Y_R (360.074 nm)	0.92 (Ratio)	0.91	0.92 (Ratio)	782634.37
10/31/2017 19:29:03	R1710018-005SD	Zn (213.857 nm)	0.5296 (ppm)	0.81	0.5296 (ppm)	14789.7809
10/31/2017 19:32:21	R1710018-005A	Ag (328.068 nm)	0.0486 (ppm)	0.76	0.0486 (ppm)	3371.3679
10/31/2017 19:32:21	R1710018-005A	Al (394.401 nm)	2.3777 (ppm)	0.67	2.3777 (ppm)	30555.4930
10/31/2017 19:32:21	R1710018-005A	As (188.980 nm)	0.0412 (ppm)	11.66	0.0412 (ppm)	35.3531
10/31/2017 19:32:21	R1710018-005A	B (249.772 nm)	1.1283 (ppm)	0.44	1.1283 (ppm)	31274.0903
10/31/2017 19:32:21	R1710018-005A	Ba (230.424 nm)	2.0098 (ppm)	0.69	2.0098 (ppm)	67568.4588
10/31/2017 19:32:21	R1710018-005A	Be (313.107 nm)	0.0495 (ppm)	0.53	0.0495 (ppm)	72528.3531
10/31/2017 19:32:21	R1710018-005A	Ca (227.547 nm)	73.5094 o (ppm)	0.53	73.5094 (ppm)	4142.6547
10/31/2017 19:32:21	R1710018-005A	Cd (214.439 nm)	0.0494 (ppm)	0.02	0.0494 (ppm)	1082.3089
10/31/2017 19:32:21	R1710018-005A	Co (230.786 nm)	0.4947 (ppm)	0.51	0.4947 (ppm)	4880.1898
10/31/2017 19:32:21	R1710018-005A	Cr (267.716 nm)	0.1956 (ppm)	0.47	0.1956 (ppm)	9681.9301
10/31/2017 19:32:21	R1710018-005A	Cu (327.395 nm)	0.2405 (ppm)	0.57	0.2405 (ppm)	14945.5153
10/31/2017 19:32:21	R1710018-005A	Fe (234.350 nm)	1.4385 (ppm)	0.61	1.4385 (ppm)	16079.0442
10/31/2017 19:32:21	R1710018-005A	K (766.491 nm)	22.4060 (ppm)	0.67	22.4060 (ppm)	67596.3764
10/31/2017 19:32:21	R1710018-005A	Mg (279.078 nm)	6.7083 (ppm)	0.44	6.7083 (ppm)	12944.2181

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:32:21	R1710018-005A	Mn (257.610 nm)	0.5264 (ppm)	1.28	0.5264 (ppm)	165010.8671
10/31/2017 19:32:21	R1710018-005A	Mo (202.032 nm)	0.4720 (ppm)	0.38	0.4720 (ppm)	4818.3299
10/31/2017 19:32:21	R1710018-005A	Na (588.995 nm)	122.4584 o (ppm)	0.88	122.4584 (ppm)	5563303.9086
10/31/2017 19:32:21	R1710018-005A	Ni (230.299 nm)	0.4870 (ppm)	0.59	0.4870 (ppm)	3260.0918
10/31/2017 19:32:21	R1710018-005A	Pb (220.353 nm)	0.4938 (ppm)	0.53	0.4938 (ppm)	1060.1612
10/31/2017 19:32:21	R1710018-005A	Sb (217.582 nm)	0.5014 (ppm)	0.82	0.5014 (ppm)	686.5416
10/31/2017 19:32:21	R1710018-005A	Se (196.026 nm)	1.1493 o (ppm)	0.82	1.1493 (ppm)	985.0762
10/31/2017 19:32:21	R1710018-005A	Sn (189.925 nm)	4.9840 (ppm)	0.54	4.9840 (ppm)	6035.2607
10/31/2017 19:32:21	R1710018-005A	Sr (216.596 nm)	2.2956 (ppm)	0.79	2.2956 (ppm)	32594.2263
10/31/2017 19:32:21	R1710018-005A	Ti (336.122 nm)	0.5057 (ppm)	1.03	0.5057 (ppm)	105335.3204
10/31/2017 19:32:21	R1710018-005A	Tl (351.923 nm)	1.9022 (ppm)	0.52	1.9022 (ppm)	5232.1506
10/31/2017 19:32:21	R1710018-005A	V (292.401 nm)	0.4905 (ppm)	0.45	0.4905 (ppm)	17447.7048
10/31/2017 19:32:21	R1710018-005A	Y (360.074 nm)	0.92 (Ratio)	0.89	0.92 (Ratio)	787061.83
10/31/2017 19:32:21	R1710018-005A	Y_R (360.074 nm)	0.92 (Ratio)	0.89	0.92 (Ratio)	787662.82
10/31/2017 19:32:21	R1710018-005A	Zn (213.857 nm)	0.5107 (ppm)	1.03	0.5107 (ppm)	14259.1870
10/31/2017 19:35:41	Continuing Calibration Verification	Ag (328.068 nm)	0.4973 (ppm)	0.24	0.4973 (ppm)	35429.1044
10/31/2017 19:35:41	Continuing Calibration Verification	Al (394.401 nm)	9.6089 (ppm)	0.24	9.6089 (ppm)	123097.3093
10/31/2017 19:35:41	Continuing Calibration Verification	As (188.980 nm)	0.9858 (ppm)	0.34	0.9858 (ppm)	879.7783
10/31/2017 19:35:41	Continuing Calibration Verification	B (249.772 nm)	2.4676 (ppm)	0.16	2.4676 (ppm)	68356.0440
10/31/2017 19:35:41	Continuing Calibration Verification	Ba (230.424 nm)	10.5227 (ppm)	0.37	10.5227 (ppm)	353766.3253
10/31/2017 19:35:41	Continuing Calibration Verification	Be (313.107 nm)	0.2579 (ppm)	0.28	0.2579 (ppm)	380381.2132
10/31/2017 19:35:41	Continuing Calibration Verification	Ca (227.547 nm)	24.4663 (ppm)	0.41	24.4663 (ppm)	1381.7518
10/31/2017 19:35:41	Continuing Calibration Verification	Cd (214.439 nm)	0.5142 (ppm)	0.25	0.5142 (ppm)	11146.5718
10/31/2017 19:35:41	Continuing Calibration Verification	Co (230.786 nm)	2.6538 (ppm)	0.12	2.6538 (ppm)	26196.5113
10/31/2017 19:35:41	Continuing Calibration Verification	Cr (267.716 nm)	0.5168 (ppm)	0.17	0.5168 (ppm)	25586.9023
10/31/2017 19:35:41	Continuing Calibration Verification	Cu (327.395 nm)	1.2157 (ppm)	0.32	1.2157 (ppm)	75489.3241
10/31/2017 19:35:41	Continuing Calibration Verification	Fe (234.350 nm)	4.9593 (ppm)	0.15	4.9593 (ppm)	55403.7602
10/31/2017 19:35:41	Continuing Calibration Verification	K (766.491 nm)	24.7541 (ppm)	0.43	24.7541 (ppm)	74681.2598
10/31/2017 19:35:41	Continuing Calibration Verification	Mg (279.078 nm)	25.6570 (ppm)	0.24	25.6570 (ppm)	49509.3020
10/31/2017 19:35:41	Continuing Calibration Verification	Mn (257.610 nm)	0.7742 (ppm)	0.24	0.7742 (ppm)	242664.2264
10/31/2017 19:35:41	Continuing Calibration Verification	Mo (202.032 nm)	2.4499 (ppm)	0.18	2.4499 (ppm)	24980.3389
10/31/2017 19:35:41	Continuing Calibration Verification	Na (588.995 nm)	24.8208 (ppm)	0.56	24.8208 (ppm)	1123259.9819
10/31/2017 19:35:41	Continuing Calibration Verification	Ni (230.299 nm)	2.0868 (ppm)	0.25	2.0868 (ppm)	14037.3419
10/31/2017 19:35:41	Continuing Calibration Verification	Pb (220.353 nm)	0.5120 (ppm)	0.48	0.5120 (ppm)	1098.9034
10/31/2017 19:35:41	Continuing Calibration Verification	Sb (217.582 nm)	4.9868 (ppm)	0.28	4.9868 (ppm)	6820.4861
10/31/2017 19:35:41	Continuing Calibration Verification	Se (196.026 nm)	0.5031 (ppm)	0.59	0.5031 (ppm)	431.6096
10/31/2017 19:35:41	Continuing Calibration Verification	Sn (189.925 nm)	5.2242 (ppm)	0.54	5.2242 (ppm)	6326.0991
10/31/2017 19:35:41	Continuing Calibration Verification	Sr (216.596 nm)	2.5983 (ppm)	0.16	2.5983 (ppm)	36892.2400
10/31/2017 19:35:41	Continuing Calibration Verification	Ti (336.122 nm)	2.5442 (ppm)	0.28	2.5442 (ppm)	531842.6493
10/31/2017 19:35:41	Continuing Calibration Verification	Tl (351.923 nm)	0.9995 (ppm)	0.60	0.9995 (ppm)	2752.6576
10/31/2017 19:35:41	Continuing Calibration Verification	V (292.401 nm)	2.5620 (ppm)	0.11	2.5620 (ppm)	90666.9611
10/31/2017 19:35:41	Continuing Calibration Verification	Y (360.074 nm)	0.93 (Ratio)	0.56	0.93 (Ratio)	791672.65
10/31/2017 19:35:41	Continuing Calibration Verification	Y_R (360.074 nm)	0.93 (Ratio)	0.56	0.93 (Ratio)	792294.15
10/31/2017 19:35:41	Continuing Calibration Verification	Zn (213.857 nm)	1.0282 (ppm)	0.17	1.0282 (ppm)	28737.1497
10/31/2017 19:39:00	Continuing Calibration Blank	Ag (328.068 nm)	0.0002 (ppm)	6.44	0.0002 (ppm)	-85.8749
10/31/2017 19:39:00	Continuing Calibration Blank	Al (394.401 nm)	0.0050 (ppm)	24.35	0.0050 (ppm)	189.6474
10/31/2017 19:39:00	Continuing Calibration Blank	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.3271
10/31/2017 19:39:00	Continuing Calibration Blank	B (249.772 nm)	0.0050 (ppm)	20.11	0.0050 (ppm)	173.4084
10/31/2017 19:39:00	Continuing Calibration Blank	Ba (230.424 nm)	0.0065 (ppm)	23.67	0.0065 (ppm)	220.6292
10/31/2017 19:39:00	Continuing Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	22.33	0.0001 (ppm)	-312.4877
10/31/2017 19:39:00	Continuing Calibration Blank	Ca (227.547 nm)	0.0352 (ppm)	58.95	0.0352 (ppm)	6.3937

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:39:00	Continuing Calibration Blank	Cd (214.439 nm)	0.0003 (ppm)	53.10	0.0003 (ppm)	20.8956
10/31/2017 19:39:00	Continuing Calibration Blank	Co (230.786 nm)	0.0018 (ppm)	13.21	0.0018 (ppm)	13.9613
10/31/2017 19:39:00	Continuing Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	18.00	0.0002 (ppm)	8.4965
10/31/2017 19:39:00	Continuing Calibration Blank	Cu (327.395 nm)	0.0009 (ppm)	19.97	0.0009 (ppm)	66.9274
10/31/2017 19:39:00	Continuing Calibration Blank	Fe (234.350 nm)	0.0034 (ppm)	18.94	0.0034 (ppm)	50.3259
10/31/2017 19:39:00	Continuing Calibration Blank	K (766.491 nm)	0.0458 (ppm)	23.84	0.0458 (ppm)	129.4781
10/31/2017 19:39:00	Continuing Calibration Blank	Mg (279.078 nm)	0.0138 (ppm)	24.38	0.0138 (ppm)	25.9529
10/31/2017 19:39:00	Continuing Calibration Blank	Mn (257.610 nm)	0.0046 (ppm)	21.53	0.0046 (ppm)	1455.5163
10/31/2017 19:39:00	Continuing Calibration Blank	Mo (202.032 nm)	0.0038 (ppm)	16.92	0.0038 (ppm)	46.1154
10/31/2017 19:39:00	Continuing Calibration Blank	Na (588.995 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-5429.2532
10/31/2017 19:39:00	Continuing Calibration Blank	Ni (230.299 nm)	0.0006 (ppm)	32.45	0.0006 (ppm)	-16.5128
10/31/2017 19:39:00	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.3823
10/31/2017 19:39:00	Continuing Calibration Blank	Sb (217.582 nm)	0.0023 (ppm)	80.95	0.0023 (ppm)	3.9879
10/31/2017 19:39:00	Continuing Calibration Blank	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.6492
10/31/2017 19:39:00	Continuing Calibration Blank	Sn (189.925 nm)	0.0033 (ppm)	38.33	0.0033 (ppm)	3.9230
10/31/2017 19:39:00	Continuing Calibration Blank	Sr (216.596 nm)	0.0016 (ppm)	45.44	0.0016 (ppm)	21.5625
10/31/2017 19:39:00	Continuing Calibration Blank	Ti (336.122 nm)	0.0024 (ppm)	12.12	0.0024 (ppm)	15.7973
10/31/2017 19:39:00	Continuing Calibration Blank	Tl (351.923 nm)	0.0026 (ppm)	54.88	0.0026 (ppm)	14.4035
10/31/2017 19:39:00	Continuing Calibration Blank	V (292.401 nm)	0.0015 (ppm)	27.67	0.0015 (ppm)	162.1037
10/31/2017 19:39:00	Continuing Calibration Blank	Y (360.074 nm)	0.96 (Ratio)	0.67	0.96 (Ratio)	819851.59
10/31/2017 19:39:00	Continuing Calibration Blank	Y_R (360.074 nm)	0.96 (Ratio)	0.67	0.96 (Ratio)	820583.06
10/31/2017 19:39:00	Continuing Calibration Blank	Zn (213.857 nm)	0.0007 (ppm)	27.29	0.0007 (ppm)	-8.4798
10/31/2017 19:42:19	R1710018-005L	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-102.7976
10/31/2017 19:42:19	R1710018-005L	Al (394.401 nm)	0.0896 (ppm)	1.31	0.0896 (ppm)	1272.3283
10/31/2017 19:42:19	R1710018-005L	As (188.980 nm)	-0.0021 u (ppm)	43.06	-0.0021 (ppm)	-3.3374
10/31/2017 19:42:19	R1710018-005L	B (249.772 nm)	0.0064 (ppm)	2.10	0.0064 (ppm)	211.2391
10/31/2017 19:42:19	R1710018-005L	Ba (230.424 nm)	0.0062 (ppm)	5.79	0.0062 (ppm)	210.7367
10/31/2017 19:42:19	R1710018-005L	Be (313.107 nm)	0.0000 (ppm)	6.94	0.0000 (ppm)	-497.4389
10/31/2017 19:42:19	R1710018-005L	Ca (227.547 nm)	13.3739 (ppm)	0.92	13.3739 (ppm)	757.3053
10/31/2017 19:42:19	R1710018-005L	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.8548
10/31/2017 19:42:19	R1710018-005L	Co (230.786 nm)	0.0002 (ppm)	61.26	0.0002 (ppm)	-1.4377
10/31/2017 19:42:19	R1710018-005L	Cr (267.716 nm)	0.0005 (ppm)	2.17	0.0005 (ppm)	25.7124
10/31/2017 19:42:19	R1710018-005L	Cu (327.395 nm)	0.0002 (ppm)	66.24	0.0002 (ppm)	26.7100
10/31/2017 19:42:19	R1710018-005L	Fe (234.350 nm)	0.1027 (ppm)	0.64	0.1027 (ppm)	1158.8348
10/31/2017 19:42:19	R1710018-005L	K (766.491 nm)	0.4332 (ppm)	1.59	0.4332 (ppm)	1298.3784
10/31/2017 19:42:19	R1710018-005L	Mg (279.078 nm)	0.9536 (ppm)	0.36	0.9536 (ppm)	1839.4424
10/31/2017 19:42:19	R1710018-005L	Mn (257.610 nm)	0.0087 (ppm)	15.74	0.0087 (ppm)	2737.0676
10/31/2017 19:42:19	R1710018-005L	Mo (202.032 nm)	0.0008 (ppm)	36.41	0.0008 (ppm)	14.9363
10/31/2017 19:42:19	R1710018-005L	Na (588.995 nm)	21.2633 (ppm)	0.42	21.2633 (ppm)	961483.6601
10/31/2017 19:42:19	R1710018-005L	Ni (230.299 nm)	-0.0013 u (ppm)	56.37	-0.0013 (ppm)	-29.5512
10/31/2017 19:42:19	R1710018-005L	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	4.6910
10/31/2017 19:42:19	R1710018-005L	Sb (217.582 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.7191
10/31/2017 19:42:19	R1710018-005L	Se (196.026 nm)	-0.0028 u (ppm)	> 100.00	-0.0028 (ppm)	-1.6485
10/31/2017 19:42:19	R1710018-005L	Sn (189.925 nm)	0.0006 (ppm)	82.86	0.0006 (ppm)	0.6809
10/31/2017 19:42:19	R1710018-005L	Sr (216.596 nm)	0.0531 (ppm)	0.82	0.0531 (ppm)	753.1050
10/31/2017 19:42:19	R1710018-005L	Ti (336.122 nm)	0.0055 (ppm)	5.94	0.0055 (ppm)	678.2373
10/31/2017 19:42:19	R1710018-005L	Tl (351.923 nm)	0.0026 u (ppm)	> 100.00	0.0026 (ppm)	14.3717
10/31/2017 19:42:19	R1710018-005L	V (292.401 nm)	0.0005 (ppm)	28.25	0.0005 (ppm)	125.0895
10/31/2017 19:42:19	R1710018-005L	Y (360.074 nm)	0.95 (Ratio)	0.76	0.95 (Ratio)	813270.10
10/31/2017 19:42:19	R1710018-005L	Y_R (360.074 nm)	0.95 (Ratio)	0.76	0.95 (Ratio)	813984.28
10/31/2017 19:42:19	R1710018-005L	Zn (213.857 nm)	0.0028 (ppm)	4.19	0.0028 (ppm)	51.5792

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:45:38	R1710018-006	Ag (328.068 nm)	0.0001 (ppm)	46.41	0.0001 (ppm)	-93.1175
10/31/2017 19:45:38	R1710018-006	Al (394.401 nm)	1.2731 (ppm)	1.29	1.2731 (ppm)	16418.2208
10/31/2017 19:45:38	R1710018-006	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.3593
10/31/2017 19:45:38	R1710018-006	B (249.772 nm)	0.0365 (ppm)	0.53	0.0365 (ppm)	1044.8003
10/31/2017 19:45:38	R1710018-006	Ba (230.424 nm)	0.0339 (ppm)	2.10	0.0339 (ppm)	1143.0140
10/31/2017 19:45:38	R1710018-006	Be (313.107 nm)	0.0000 (ppm)	13.45	0.0000 (ppm)	-454.2895
10/31/2017 19:45:38	R1710018-006	Ca (227.547 nm)	50.5206 (ppm)	1.07	50.5206 (ppm)	2848.4944
10/31/2017 19:45:38	R1710018-006	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	13.9878
10/31/2017 19:45:38	R1710018-006	Co (230.786 nm)	0.0009 (ppm)	19.18	0.0009 (ppm)	5.2144
10/31/2017 19:45:38	R1710018-006	Cr (267.716 nm)	0.0171 (ppm)	1.32	0.0171 (ppm)	848.0730
10/31/2017 19:45:38	R1710018-006	Cu (327.395 nm)	0.0019 (ppm)	3.40	0.0019 (ppm)	127.8962
10/31/2017 19:45:38	R1710018-006	Fe (234.350 nm)	1.4269 (ppm)	0.97	1.4269 (ppm)	15949.4301
10/31/2017 19:45:38	R1710018-006	K (766.491 nm)	4.1354 (ppm)	1.05	4.1354 (ppm)	12468.8668
10/31/2017 19:45:38	R1710018-006	Mg (279.078 nm)	3.4632 (ppm)	1.03	3.4632 (ppm)	6682.2653
10/31/2017 19:45:38	R1710018-006	Mn (257.610 nm)	1.9014 o (ppm)	0.93	1.9014 (ppm)	595992.5866
10/31/2017 19:45:38	R1710018-006	Mo (202.032 nm)	0.0010 (ppm)	12.10	0.0010 (ppm)	17.4146
10/31/2017 19:45:38	R1710018-006	Na (588.995 nm)	127.3111 o (ppm)	1.08	127.3111 (ppm)	5783976.1751
10/31/2017 19:45:38	R1710018-006	Ni (230.299 nm)	-0.0029 u (ppm)	32.13	-0.0029 (ppm)	-39.9799
10/31/2017 19:45:38	R1710018-006	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	3.1076
10/31/2017 19:45:38	R1710018-006	Sb (217.582 nm)	0.0014 (ppm)	27.36	0.0014 (ppm)	2.7389
10/31/2017 19:45:38	R1710018-006	Se (196.026 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	1.2838
10/31/2017 19:45:38	R1710018-006	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.0826
10/31/2017 19:45:38	R1710018-006	Sr (216.596 nm)	0.2089 (ppm)	1.15	0.2089 (ppm)	2965.8140
10/31/2017 19:45:38	R1710018-006	Ti (336.122 nm)	0.0646 (ppm)	1.60	0.0646 (ppm)	13042.9769
10/31/2017 19:45:38	R1710018-006	Tl (351.923 nm)	0.0009 (ppm)	63.21	0.0009 (ppm)	9.7723
10/31/2017 19:45:38	R1710018-006	V (292.401 nm)	0.0024 (ppm)	2.26	0.0024 (ppm)	193.5185
10/31/2017 19:45:38	R1710018-006	Y (360.074 nm)	0.92 (Ratio)	1.18	0.92 (Ratio)	782219.61
10/31/2017 19:45:38	R1710018-006	Y_R (360.074 nm)	0.92 (Ratio)	1.18	0.92 (Ratio)	782861.76
10/31/2017 19:45:38	R1710018-006	Zn (213.857 nm)	0.0104 (ppm)	0.63	0.0104 (ppm)	265.2960
10/31/2017 19:48:57	R1710018-007 10X	Ag (328.068 nm)	-0.0003 u (ppm)	60.70	-0.0003 (ppm)	-123.3999
10/31/2017 19:48:57	R1710018-007 10X	Al (394.401 nm)	0.0822 (ppm)	1.47	0.0822 (ppm)	1177.5074
10/31/2017 19:48:57	R1710018-007 10X	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-1.3451
10/31/2017 19:48:57	R1710018-007 10X	B (249.772 nm)	0.0040 (ppm)	4.02	0.0040 (ppm)	145.5510
10/31/2017 19:48:57	R1710018-007 10X	Ba (230.424 nm)	0.0029 (ppm)	9.29	0.0029 (ppm)	98.8861
10/31/2017 19:48:57	R1710018-007 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-514.1625
10/31/2017 19:48:57	R1710018-007 10X	Ca (227.547 nm)	4.6785 (ppm)	1.19	4.6785 (ppm)	267.7908
10/31/2017 19:48:57	R1710018-007 10X	Cd (214.439 nm)	0.0002 (ppm)	31.29	0.0002 (ppm)	17.6444
10/31/2017 19:48:57	R1710018-007 10X	Co (230.786 nm)	0.0004 (ppm)	32.20	0.0004 (ppm)	0.7592
10/31/2017 19:48:57	R1710018-007 10X	Cr (267.716 nm)	-0.0049 u (ppm)	1.98	-0.0049 (ppm)	-244.3254
10/31/2017 19:48:57	R1710018-007 10X	Cu (327.395 nm)	0.0004 (ppm)	37.47	0.0004 (ppm)	36.1829
10/31/2017 19:48:57	R1710018-007 10X	Fe (234.350 nm)	0.1107 (ppm)	0.93	0.1107 (ppm)	1248.3777
10/31/2017 19:48:57	R1710018-007 10X	K (766.491 nm)	4.4829 (ppm)	0.44	4.4829 (ppm)	13517.4692
10/31/2017 19:48:57	R1710018-007 10X	Mg (279.078 nm)	0.3451 (ppm)	0.08	0.3451 (ppm)	665.2541
10/31/2017 19:48:57	R1710018-007 10X	Mn (257.610 nm)	20.9187 o (ppm)	0.33	20.9187 (ppm)	6556742.9006
10/31/2017 19:48:57	R1710018-007 10X	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	9.5679
10/31/2017 19:48:57	R1710018-007 10X	Na (588.995 nm)	26.7195 (ppm)	0.68	26.7195 (ppm)	1209603.5196
10/31/2017 19:48:57	R1710018-007 10X	Ni (230.299 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-21.4918
10/31/2017 19:48:57	R1710018-007 10X	Pb (220.353 nm)	0.0024 (ppm)	34.56	0.0024 (ppm)	10.1029
10/31/2017 19:48:57	R1710018-007 10X	Sb (217.582 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.4928
10/31/2017 19:48:57	R1710018-007 10X	Se (196.026 nm)	0.0134 (ppm)	38.02	0.0134 (ppm)	12.2720
10/31/2017 19:48:57	R1710018-007 10X	Sn (189.925 nm)	0.0007 (ppm)	58.62	0.0007 (ppm)	0.7315

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:48:57	R1710018-007 10X	Sr (216.596 nm)	0.0169 (ppm)	0.39	0.0169 (ppm)	239.4564
10/31/2017 19:48:57	R1710018-007 10X	Ti (336.122 nm)	0.0066 (ppm)	4.17	0.0066 (ppm)	889.3643
10/31/2017 19:48:57	R1710018-007 10X	Tl (351.923 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.9054
10/31/2017 19:48:57	R1710018-007 10X	V (292.401 nm)	0.0005 (ppm)	31.91	0.0005 (ppm)	128.1983
10/31/2017 19:48:57	R1710018-007 10X	Y (360.074 nm)	0.94 (Ratio)	0.59	0.94 (Ratio)	803222.75
10/31/2017 19:48:57	R1710018-007 10X	Y_R (360.074 nm)	0.94 (Ratio)	0.59	0.94 (Ratio)	803919.35
10/31/2017 19:48:57	R1710018-007 10X	Zn (213.857 nm)	0.0024 (ppm)	1.00	0.0024 (ppm)	39.1341
10/31/2017 19:52:16	R1710018-007	Ag (328.068 nm)	-0.0026 u (ppm)	2.42	-0.0026 (ppm)	-292.2525
10/31/2017 19:52:16	R1710018-007	Al (394.401 nm)	0.9076 (ppm)	0.61	0.9076 (ppm)	11740.5850
10/31/2017 19:52:16	R1710018-007	As (188.980 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-0.8316
10/31/2017 19:52:16	R1710018-007	B (249.772 nm)	0.0349 (ppm)	0.98	0.0349 (ppm)	999.0354
10/31/2017 19:52:16	R1710018-007	Ba (230.424 nm)	0.0250 (ppm)	0.80	0.0250 (ppm)	842.0048
10/31/2017 19:52:16	R1710018-007	Be (313.107 nm)	0.0001 (ppm)	18.48	0.0001 (ppm)	-429.9804
10/31/2017 19:52:16	R1710018-007	Ca (227.547 nm)	51.5146 (ppm)	0.34	51.5146 (ppm)	2904.4481
10/31/2017 19:52:16	R1710018-007	Cd (214.439 nm)	0.0003 (ppm)	42.02	0.0003 (ppm)	19.5999
10/31/2017 19:52:16	R1710018-007	Co (230.786 nm)	0.0007 (ppm)	22.35	0.0007 (ppm)	3.4948
10/31/2017 19:52:16	R1710018-007	Cr (267.716 nm)	-0.0471 u (ppm)	0.50	-0.0471 (ppm)	-2330.8973
10/31/2017 19:52:16	R1710018-007	Cu (327.395 nm)	0.0031 (ppm)	3.70	0.0031 (ppm)	204.6183
10/31/2017 19:52:16	R1710018-007	Fe (234.350 nm)	1.0629 (ppm)	0.38	1.0629 (ppm)	11883.8270
10/31/2017 19:52:16	R1710018-007	K (766.491 nm)	51.0198 (ppm)	0.59	51.0198 (ppm)	153932.3331
10/31/2017 19:52:16	R1710018-007	Mg (279.078 nm)	3.4556 (ppm)	0.39	3.4556 (ppm)	6667.6287
10/31/2017 19:52:16	R1710018-007	Mn (257.610 nm)	#### (ppm)	N/A	#### (ppm)	####
10/31/2017 19:52:16	R1710018-007	Mo (202.032 nm)	0.0008 (ppm)	25.21	0.0008 (ppm)	15.0800
10/31/2017 19:52:16	R1710018-007	Na (588.995 nm)	258.6553 o (ppm)	0.51	258.6553 (ppm)	11756819.7269
10/31/2017 19:52:16	R1710018-007	Ni (230.299 nm)	0.0074 (ppm)	11.04	0.0074 (ppm)	29.5377
10/31/2017 19:52:16	R1710018-007	Pb (220.353 nm)	0.0217 (ppm)	9.66	0.0217 (ppm)	51.3294
10/31/2017 19:52:16	R1710018-007	Sb (217.582 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-1.3377
10/31/2017 19:52:16	R1710018-007	Se (196.026 nm)	0.1001 (ppm)	2.47	0.1001 (ppm)	86.5203
10/31/2017 19:52:16	R1710018-007	Sn (189.925 nm)	-0.0016 u (ppm)	58.75	-0.0016 (ppm)	-1.9679
10/31/2017 19:52:16	R1710018-007	Sr (216.596 nm)	0.1657 (ppm)	0.29	0.1657 (ppm)	2351.4004
10/31/2017 19:52:16	R1710018-007	Ti (336.122 nm)	0.0640 (ppm)	2.90	0.0640 (ppm)	12903.8534
10/31/2017 19:52:16	R1710018-007	Tl (351.923 nm)	-0.0123 u (ppm)	16.31	-0.0123 (ppm)	-26.5040
10/31/2017 19:52:16	R1710018-007	V (292.401 nm)	0.0028 (ppm)	6.05	0.0028 (ppm)	209.5073
10/31/2017 19:52:16	R1710018-007	Y (360.074 nm)	0.89 (Ratio)	0.70	0.89 (Ratio)	755693.85
10/31/2017 19:52:16	R1710018-007	Y_R (360.074 nm)	0.89 (Ratio)	0.70	0.89 (Ratio)	756271.35
10/31/2017 19:52:16	R1710018-007	Zn (213.857 nm)	0.0145 (ppm)	1.09	0.0145 (ppm)	379.3382
10/31/2017 19:55:36	R1710018-008	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-103.9097
10/31/2017 19:55:36	R1710018-008	Al (394.401 nm)	0.3806 (ppm)	0.54	0.3806 (ppm)	4996.7915
10/31/2017 19:55:36	R1710018-008	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-1.8133
10/31/2017 19:55:36	R1710018-008	B (249.772 nm)	0.0431 (ppm)	0.23	0.0431 (ppm)	1227.4694
10/31/2017 19:55:36	R1710018-008	Ba (230.424 nm)	0.0147 (ppm)	1.06	0.0147 (ppm)	496.2240
10/31/2017 19:55:36	R1710018-008	Be (313.107 nm)	0.0000 (ppm)	64.51	0.0000 (ppm)	-544.2410
10/31/2017 19:55:36	R1710018-008	Ca (227.547 nm)	47.3601 (ppm)	0.51	47.3601 (ppm)	2670.5674
10/31/2017 19:55:36	R1710018-008	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.5215
10/31/2017 19:55:36	R1710018-008	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.2237
10/31/2017 19:55:36	R1710018-008	Cr (267.716 nm)	0.0015 (ppm)	7.21	0.0015 (ppm)	73.2486
10/31/2017 19:55:36	R1710018-008	Cu (327.395 nm)	0.0011 (ppm)	9.04	0.0011 (ppm)	84.2046
10/31/2017 19:55:36	R1710018-008	Fe (234.350 nm)	0.4555 (ppm)	0.34	0.4555 (ppm)	5099.2171
10/31/2017 19:55:36	R1710018-008	K (766.491 nm)	15.3550 (ppm)	0.69	15.3550 (ppm)	46321.5782
10/31/2017 19:55:36	R1710018-008	Mg (279.078 nm)	3.0931 (ppm)	0.08	3.0931 (ppm)	5968.1226
10/31/2017 19:55:36	R1710018-008	Mn (257.610 nm)	6.1138 o (ppm)	1.47	6.1138 (ppm)	1916308.7600

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 19:55:36	R1710018-008	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	7.0736
10/31/2017 19:55:36	R1710018-008	Na (588.995 nm)	190.0294 o (ppm)	0.85	190.0294 (ppm)	8636073.7216
10/31/2017 19:55:36	R1710018-008	Ni (230.299 nm)	-0.0030 u (ppm)	9.86	-0.0030 (ppm)	-40.7015
10/31/2017 19:55:36	R1710018-008	Pb (220.353 nm)	-0.0010 u (ppm)	96.10	-0.0010 (ppm)	2.9436
10/31/2017 19:55:36	R1710018-008	Sb (217.582 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	1.7125
10/31/2017 19:55:36	R1710018-008	Se (196.026 nm)	0.0026 (ppm)	96.68	0.0026 (ppm)	3.0419
10/31/2017 19:55:36	R1710018-008	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.6117
10/31/2017 19:55:36	R1710018-008	Sr (216.596 nm)	0.1922 (ppm)	0.19	0.1922 (ppm)	2727.7871
10/31/2017 19:55:36	R1710018-008	Ti (336.122 nm)	0.0245 (ppm)	1.32	0.0245 (ppm)	4642.1526
10/31/2017 19:55:36	R1710018-008	Tl (351.923 nm)	0.0038 (ppm)	41.48	0.0038 (ppm)	17.8171
10/31/2017 19:55:36	R1710018-008	V (292.401 nm)	0.0009 (ppm)	25.51	0.0009 (ppm)	142.3331
10/31/2017 19:55:36	R1710018-008	Y (360.074 nm)	0.91 (Ratio)	0.59	0.91 (Ratio)	775081.70
10/31/2017 19:55:36	R1710018-008	Y_R (360.074 nm)	0.91 (Ratio)	0.59	0.91 (Ratio)	775634.76
10/31/2017 19:55:36	R1710018-008	Zn (213.857 nm)	0.0078 (ppm)	0.92	0.0078 (ppm)	192.6117
10/31/2017 19:58:56	R1710018-009 100X	Ag (328.068 nm)	-0.0005 u (ppm)	11.54	-0.0005 (ppm)	-141.1225
10/31/2017 19:58:56	R1710018-009 100X	Al (394.401 nm)	0.0072 (ppm)	3.52	0.0072 (ppm)	218.0475
10/31/2017 19:58:56	R1710018-009 100X	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-0.7501
10/31/2017 19:58:56	R1710018-009 100X	B (249.772 nm)	-0.0007 u (ppm)	9.15	-0.0007 (ppm)	13.8463
10/31/2017 19:58:56	R1710018-009 100X	Ba (230.424 nm)	0.0003 (ppm)	51.93	0.0003 (ppm)	13.1632
10/31/2017 19:58:56	R1710018-009 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-523.0618
10/31/2017 19:58:56	R1710018-009 100X	Ca (227.547 nm)	1.7243 (ppm)	3.81	1.7243 (ppm)	101.4842
10/31/2017 19:58:56	R1710018-009 100X	Cd (214.439 nm)	0.0002 (ppm)	27.82	0.0002 (ppm)	17.0110
10/31/2017 19:58:56	R1710018-009 100X	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.6118
10/31/2017 19:58:56	R1710018-009 100X	Cr (267.716 nm)	-0.0119 u (ppm)	4.90	-0.0119 (ppm)	-589.7616
10/31/2017 19:58:56	R1710018-009 100X	Cu (327.395 nm)	0.0002 (ppm)	68.91	0.0002 (ppm)	26.5285
10/31/2017 19:58:56	R1710018-009 100X	Fe (234.350 nm)	0.0060 (ppm)	11.09	0.0060 (ppm)	78.3894
10/31/2017 19:58:56	R1710018-009 100X	K (766.491 nm)	0.2515 (ppm)	7.01	0.2515 (ppm)	750.0273
10/31/2017 19:58:56	R1710018-009 100X	Mg (279.078 nm)	0.1934 (ppm)	0.56	0.1934 (ppm)	372.5869
10/31/2017 19:58:56	R1710018-009 100X	Mn (257.610 nm)	30.7917 o (ppm)	4.90	30.7917 (ppm)	9651314.0921
10/31/2017 19:58:56	R1710018-009 100X	Mo (202.032 nm)	0.0002 (ppm)	49.13	0.0002 (ppm)	9.0983
10/31/2017 19:58:56	R1710018-009 100X	Na (588.995 nm)	20.5114 (ppm)	1.17	20.5114 (ppm)	927289.9992
10/31/2017 19:58:56	R1710018-009 100X	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-20.1240
10/31/2017 19:58:56	R1710018-009 100X	Pb (220.353 nm)	0.0039 (ppm)	39.40	0.0039 (ppm)	13.3014
10/31/2017 19:58:56	R1710018-009 100X	Sb (217.582 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-0.9398
10/31/2017 19:58:56	R1710018-009 100X	Se (196.026 nm)	0.0166 (ppm)	28.88	0.0166 (ppm)	15.0300
10/31/2017 19:58:56	R1710018-009 100X	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.3165
10/31/2017 19:58:56	R1710018-009 100X	Sr (216.596 nm)	0.0072 (ppm)	4.63	0.0072 (ppm)	100.9378
10/31/2017 19:58:56	R1710018-009 100X	Ti (336.122 nm)	0.0000 (ppm)	74.97	0.0000 (ppm)	-471.4767
10/31/2017 19:58:56	R1710018-009 100X	Tl (351.923 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	4.3280
10/31/2017 19:58:56	R1710018-009 100X	V (292.401 nm)	0.0003 (ppm)	67.60	0.0003 (ppm)	120.7898
10/31/2017 19:58:56	R1710018-009 100X	Y (360.074 nm)	0.96 (Ratio)	0.82	0.96 (Ratio)	818622.52
10/31/2017 19:58:56	R1710018-009 100X	Y_R (360.074 nm)	0.96 (Ratio)	0.82	0.96 (Ratio)	819299.02
10/31/2017 19:58:56	R1710018-009 100X	Zn (213.857 nm)	0.0029 (ppm)	3.30	0.0029 (ppm)	53.5280
10/31/2017 20:02:15	R1710018-010	Ag (328.068 nm)	0.0004 (ppm)	11.98	0.0004 (ppm)	-76.4044
10/31/2017 20:02:15	R1710018-010	Al (394.401 nm)	0.9236 (ppm)	0.65	0.9236 (ppm)	11945.8186
10/31/2017 20:02:15	R1710018-010	As (188.980 nm)	-0.0031 u (ppm)	59.59	-0.0031 (ppm)	-4.1902
10/31/2017 20:02:15	R1710018-010	B (249.772 nm)	0.0480 (ppm)	0.78	0.0480 (ppm)	1363.8902
10/31/2017 20:02:15	R1710018-010	Ba (230.424 nm)	0.0396 (ppm)	0.72	0.0396 (ppm)	1334.6818
10/31/2017 20:02:15	R1710018-010	Be (313.107 nm)	0.0000 (ppm)	19.73	0.0000 (ppm)	-469.2863
10/31/2017 20:02:15	R1710018-010	Ca (227.547 nm)	105.2005 o (ppm)	0.40	105.2005 (ppm)	5926.7203
10/31/2017 20:02:15	R1710018-010	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.5795

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:02:15	R1710018-010	Co (230.786 nm)	0.0004 (ppm)	90.62	0.0004 (ppm)	0.2806
10/31/2017 20:02:15	R1710018-010	Cr (267.716 nm)	0.0262 (ppm)	0.75	0.0262 (ppm)	1297.8806
10/31/2017 20:02:15	R1710018-010	Cu (327.395 nm)	0.0016 (ppm)	1.26	0.0016 (ppm)	110.2335
10/31/2017 20:02:15	R1710018-010	Fe (234.350 nm)	1.0295 (ppm)	0.42	1.0295 (ppm)	11511.0794
10/31/2017 20:02:15	R1710018-010	K (766.491 nm)	15.6026 (ppm)	0.49	15.6026 (ppm)	47068.7663
10/31/2017 20:02:15	R1710018-010	Mg (279.078 nm)	7.5779 (ppm)	0.48	7.5779 (ppm)	14622.2411
10/31/2017 20:02:15	R1710018-010	Mn (257.610 nm)	4.4464 o (ppm)	0.20	4.4464 (ppm)	1393692.4611
10/31/2017 20:02:15	R1710018-010	Mo (202.032 nm)	0.0008 (ppm)	13.28	0.0008 (ppm)	14.7532
10/31/2017 20:02:15	R1710018-010	Na (588.995 nm)	119.8654 o (ppm)	0.59	119.8654 (ppm)	5445386.8533
10/31/2017 20:02:15	R1710018-010	Ni (230.299 nm)	0.0055 (ppm)	16.40	0.0055 (ppm)	16.2380
10/31/2017 20:02:15	R1710018-010	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.3899
10/31/2017 20:02:15	R1710018-010	Sb (217.582 nm)	-0.0050 u (ppm)	43.44	-0.0050 (ppm)	-6.0671
10/31/2017 20:02:15	R1710018-010	Se (196.026 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	2.3165
10/31/2017 20:02:15	R1710018-010	Sn (189.925 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	-1.9166
10/31/2017 20:02:15	R1710018-010	Sr (216.596 nm)	0.3250 (ppm)	0.37	0.3250 (ppm)	4613.3570
10/31/2017 20:02:15	R1710018-010	Ti (336.122 nm)	0.0524 (ppm)	0.65	0.0524 (ppm)	10486.7564
10/31/2017 20:02:15	R1710018-010	Tl (351.923 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	10.2427
10/31/2017 20:02:15	R1710018-010	V (292.401 nm)	0.0017 (ppm)	12.12	0.0017 (ppm)	168.1583
10/31/2017 20:02:15	R1710018-010	Y (360.074 nm)	0.93 (Ratio)	0.80	0.93 (Ratio)	790812.14
10/31/2017 20:02:15	R1710018-010	Y_R (360.074 nm)	0.93 (Ratio)	0.80	0.93 (Ratio)	791385.52
10/31/2017 20:02:15	R1710018-010	Zn (213.857 nm)	0.0100 (ppm)	0.33	0.0100 (ppm)	254.2343
10/31/2017 20:05:34	R1710018-011	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-102.8897
10/31/2017 20:05:34	R1710018-011	Al (394.401 nm)	0.6133 (ppm)	1.09	0.6133 (ppm)	7974.1145
10/31/2017 20:05:34	R1710018-011	As (188.980 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-2.3297
10/31/2017 20:05:34	R1710018-011	B (249.772 nm)	0.0279 (ppm)	0.65	0.0279 (ppm)	805.2663
10/31/2017 20:05:34	R1710018-011	Ba (230.424 nm)	0.0279 (ppm)	0.36	0.0279 (ppm)	940.0157
10/31/2017 20:05:34	R1710018-011	Be (313.107 nm)	0.0000 (ppm)	36.62	0.0000 (ppm)	-488.3166
10/31/2017 20:05:34	R1710018-011	Ca (227.547 nm)	79.1357 o (ppm)	0.96	79.1357 (ppm)	4459.3911
10/31/2017 20:05:34	R1710018-011	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.7795
10/31/2017 20:05:34	R1710018-011	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.1044
10/31/2017 20:05:34	R1710018-011	Cr (267.716 nm)	0.0066 (ppm)	1.97	0.0066 (ppm)	324.2809
10/31/2017 20:05:34	R1710018-011	Cu (327.395 nm)	0.0013 (ppm)	11.01	0.0013 (ppm)	91.5757
10/31/2017 20:05:34	R1710018-011	Fe (234.350 nm)	0.6983 (ppm)	1.03	0.6983 (ppm)	7811.0444
10/31/2017 20:05:34	R1710018-011	K (766.491 nm)	3.4758 (ppm)	1.19	3.4758 (ppm)	10478.7943
10/31/2017 20:05:34	R1710018-011	Mg (279.078 nm)	5.3908 (ppm)	0.93	5.3908 (ppm)	10401.9406
10/31/2017 20:05:34	R1710018-011	Mn (257.610 nm)	0.0845 (ppm)	18.20	0.0845 (ppm)	26494.6737
10/31/2017 20:05:34	R1710018-011	Mo (202.032 nm)	0.0003 (ppm)	56.75	0.0003 (ppm)	10.4338
10/31/2017 20:05:34	R1710018-011	Na (588.995 nm)	76.6618 o (ppm)	1.10	76.6618 (ppm)	3480714.3393
10/31/2017 20:05:34	R1710018-011	Ni (230.299 nm)	-0.0047 u (ppm)	15.75	-0.0047 (ppm)	-52.3265
10/31/2017 20:05:34	R1710018-011	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	3.6716
10/31/2017 20:05:34	R1710018-011	Sb (217.582 nm)	-0.0022 u (ppm)	77.62	-0.0022 (ppm)	-2.2158
10/31/2017 20:05:34	R1710018-011	Se (196.026 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	-0.8306
10/31/2017 20:05:34	R1710018-011	Sn (189.925 nm)	-0.0012 u (ppm)	53.77	-0.0012 (ppm)	-1.5683
10/31/2017 20:05:34	R1710018-011	Sr (216.596 nm)	0.2397 (ppm)	0.86	0.2397 (ppm)	3402.6246
10/31/2017 20:05:34	R1710018-011	Ti (336.122 nm)	0.0357 (ppm)	0.92	0.0357 (ppm)	6979.9776
10/31/2017 20:05:34	R1710018-011	Tl (351.923 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	7.8863
10/31/2017 20:05:34	R1710018-011	V (292.401 nm)	0.0013 (ppm)	13.71	0.0013 (ppm)	154.2869
10/31/2017 20:05:34	R1710018-011	Y (360.074 nm)	0.93 (Ratio)	1.22	0.93 (Ratio)	797449.90
10/31/2017 20:05:34	R1710018-011	Y_R (360.074 nm)	0.93 (Ratio)	1.22	0.93 (Ratio)	798053.76
10/31/2017 20:05:34	R1710018-011	Zn (213.857 nm)	0.0095 (ppm)	1.90	0.0095 (ppm)	238.8402
10/31/2017 20:08:53	R1710191-001 10X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-100.3195

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:08:53	R1710191-001 10X	Al (394.401 nm)	0.0430 (ppm)	1.30	0.0430 (ppm)	675.6894
10/31/2017 20:08:53	R1710191-001 10X	As (188.980 nm)	0.0023 (ppm)	25.06	0.0023 (ppm)	0.6036
10/31/2017 20:08:53	R1710191-001 10X	B (249.772 nm)	0.0081 (ppm)	1.66	0.0081 (ppm)	258.5428
10/31/2017 20:08:53	R1710191-001 10X	Ba (230.424 nm)	0.0062 (ppm)	1.33	0.0062 (ppm)	210.6291
10/31/2017 20:08:53	R1710191-001 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-519.1140
10/31/2017 20:08:53	R1710191-001 10X	Ca (227.547 nm)	23.8293 (ppm)	0.71	23.8293 (ppm)	1345.8960
10/31/2017 20:08:53	R1710191-001 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.6225
10/31/2017 20:08:53	R1710191-001 10X	Co (230.786 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-2.8944
10/31/2017 20:08:53	R1710191-001 10X	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	0.5736
10/31/2017 20:08:53	R1710191-001 10X	Cu (327.395 nm)	0.0005 (ppm)	16.57	0.0005 (ppm)	41.7129
10/31/2017 20:08:53	R1710191-001 10X	Fe (234.350 nm)	3.0306 (ppm)	0.38	3.0306 (ppm)	33861.0062
10/31/2017 20:08:53	R1710191-001 10X	K (766.491 nm)	0.2182 (ppm)	2.18	0.2182 (ppm)	649.6642
10/31/2017 20:08:53	R1710191-001 10X	Mg (279.078 nm)	16.9654 (ppm)	0.46	16.9654 (ppm)	32737.2700
10/31/2017 20:08:53	R1710191-001 10X	Mn (257.610 nm)	0.0446 (ppm)	3.47	0.0446 (ppm)	13972.8791
10/31/2017 20:08:53	R1710191-001 10X	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	7.9288
10/31/2017 20:08:53	R1710191-001 10X	Na (588.995 nm)	25.5623 (ppm)	0.50	25.5623 (ppm)	1156977.4356
10/31/2017 20:08:53	R1710191-001 10X	Ni (230.299 nm)	-0.0008 u (ppm)	41.20	-0.0008 (ppm)	-26.2576
10/31/2017 20:08:53	R1710191-001 10X	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	3.7523
10/31/2017 20:08:53	R1710191-001 10X	Sb (217.582 nm)	-0.0015 u (ppm)	74.93	-0.0015 (ppm)	-1.2280
10/31/2017 20:08:53	R1710191-001 10X	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	0.2884
10/31/2017 20:08:53	R1710191-001 10X	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-0.9759
10/31/2017 20:08:53	R1710191-001 10X	Sr (216.596 nm)	0.1124 (ppm)	0.36	0.1124 (ppm)	1595.7568
10/31/2017 20:08:53	R1710191-001 10X	Ti (336.122 nm)	0.0010 (ppm)	17.38	0.0010 (ppm)	-264.3647
10/31/2017 20:08:53	R1710191-001 10X	Tl (351.923 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	7.4460
10/31/2017 20:08:53	R1710191-001 10X	V (292.401 nm)	0.0006 (ppm)	6.07	0.0006 (ppm)	131.5824
10/31/2017 20:08:53	R1710191-001 10X	Y (360.074 nm)	0.96 (Ratio)	0.87	0.96 (Ratio)	814849.72
10/31/2017 20:08:53	R1710191-001 10X	Y_R (360.074 nm)	0.95 (Ratio)	0.87	0.95 (Ratio)	815500.10
10/31/2017 20:08:53	R1710191-001 10X	Zn (213.857 nm)	0.0033 (ppm)	1.21	0.0033 (ppm)	64.8762
10/31/2017 20:12:12	Continuing Calibration Verification	Ag (328.068 nm)	0.4965 (ppm)	0.84	0.4965 (ppm)	35370.1770
10/31/2017 20:12:12	Continuing Calibration Verification	Al (394.401 nm)	9.5741 (ppm)	1.02	9.5741 (ppm)	122652.0977
10/31/2017 20:12:12	Continuing Calibration Verification	As (188.980 nm)	0.9870 (ppm)	1.48	0.9870 (ppm)	880.8090
10/31/2017 20:12:12	Continuing Calibration Verification	B (249.772 nm)	2.4592 (ppm)	0.78	2.4592 (ppm)	68122.3839
10/31/2017 20:12:12	Continuing Calibration Verification	Ba (230.424 nm)	10.4928 (ppm)	0.88	10.4928 (ppm)	352759.9544
10/31/2017 20:12:12	Continuing Calibration Verification	Be (313.107 nm)	0.2576 (ppm)	0.92	0.2576 (ppm)	379949.9152
10/31/2017 20:12:12	Continuing Calibration Verification	Ca (227.547 nm)	24.3030 (ppm)	1.35	24.3030 (ppm)	1372.5611
10/31/2017 20:12:12	Continuing Calibration Verification	Cd (214.439 nm)	0.5143 (ppm)	0.75	0.5143 (ppm)	11146.9802
10/31/2017 20:12:12	Continuing Calibration Verification	Co (230.786 nm)	2.6515 (ppm)	0.84	2.6515 (ppm)	26173.8966
10/31/2017 20:12:12	Continuing Calibration Verification	Cr (267.716 nm)	0.5166 (ppm)	0.84	0.5166 (ppm)	25576.2663
10/31/2017 20:12:12	Continuing Calibration Verification	Cu (327.395 nm)	1.2094 (ppm)	1.05	1.2094 (ppm)	75098.7586
10/31/2017 20:12:12	Continuing Calibration Verification	Fe (234.350 nm)	4.9560 (ppm)	0.90	4.9560 (ppm)	55366.8505
10/31/2017 20:12:12	Continuing Calibration Verification	K (766.491 nm)	24.5984 (ppm)	1.04	24.5984 (ppm)	74211.5352
10/31/2017 20:12:12	Continuing Calibration Verification	Mg (279.078 nm)	25.6797 (ppm)	0.93	25.6797 (ppm)	49553.0490
10/31/2017 20:12:12	Continuing Calibration Verification	Mn (257.610 nm)	0.7823 (ppm)	0.51	0.7823 (ppm)	245193.8814
10/31/2017 20:12:12	Continuing Calibration Verification	Mo (202.032 nm)	2.4441 (ppm)	0.81	2.4441 (ppm)	24921.0618
10/31/2017 20:12:12	Continuing Calibration Verification	Na (588.995 nm)	24.6845 (ppm)	1.48	24.6845 (ppm)	1117060.3224
10/31/2017 20:12:12	Continuing Calibration Verification	Ni (230.299 nm)	2.0857 (ppm)	0.86	2.0857 (ppm)	14029.7108
10/31/2017 20:12:12	Continuing Calibration Verification	Pb (220.353 nm)	0.5137 (ppm)	0.81	0.5137 (ppm)	1102.7066
10/31/2017 20:12:12	Continuing Calibration Verification	Sb (217.582 nm)	4.9747 (ppm)	1.06	4.9747 (ppm)	6804.0293
10/31/2017 20:12:12	Continuing Calibration Verification	Se (196.026 nm)	0.4940 (ppm)	1.47	0.4940 (ppm)	423.8664
10/31/2017 20:12:12	Continuing Calibration Verification	Sn (189.925 nm)	5.2413 (ppm)	1.10	5.2413 (ppm)	6346.7918
10/31/2017 20:12:12	Continuing Calibration Verification	Sr (216.596 nm)	2.5978 (ppm)	0.70	2.5978 (ppm)	36885.0748

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:12:12	Continuing Calibration Verification	Ti (336.122 nm)	2.5335 (ppm)	0.97	2.5335 (ppm)	529617.9525
10/31/2017 20:12:12	Continuing Calibration Verification	Tl (351.923 nm)	0.9896 (ppm)	0.76	0.9896 (ppm)	2725.4719
10/31/2017 20:12:12	Continuing Calibration Verification	V (292.401 nm)	2.5600 (ppm)	0.86	2.5600 (ppm)	90595.8802
10/31/2017 20:12:12	Continuing Calibration Verification	Y (360.074 nm)	0.93 (Ratio)	1.21	0.93 (Ratio)	794892.80
10/31/2017 20:12:12	Continuing Calibration Verification	Y_R (360.074 nm)	0.93 (Ratio)	1.21	0.93 (Ratio)	795517.80
10/31/2017 20:12:12	Continuing Calibration Verification	Zn (213.857 nm)	1.0277 (ppm)	0.87	1.0277 (ppm)	28724.2478
10/31/2017 20:15:31	Continuing Calibration Blank	Ag (328.068 nm)	0.0003 (ppm)	58.93	0.0003 (ppm)	-80.9980
10/31/2017 20:15:31	Continuing Calibration Blank	Al (394.401 nm)	0.0071 (ppm)	50.98	0.0071 (ppm)	216.7144
10/31/2017 20:15:31	Continuing Calibration Blank	As (188.980 nm)	0.0022 (ppm)	64.49	0.0022 (ppm)	0.5011
10/31/2017 20:15:31	Continuing Calibration Blank	B (249.772 nm)	0.0050 (ppm)	28.97	0.0050 (ppm)	170.8299
10/31/2017 20:15:31	Continuing Calibration Blank	Ba (230.424 nm)	0.0102 (ppm)	53.95	0.0102 (ppm)	345.3217
10/31/2017 20:15:31	Continuing Calibration Blank	Be (313.107 nm)	0.0002 (ppm)	37.86	0.0002 (ppm)	-217.0024
10/31/2017 20:15:31	Continuing Calibration Blank	Ca (227.547 nm)	0.0269 u (ppm)	92.46	0.0269 (ppm)	5.9298
10/31/2017 20:15:31	Continuing Calibration Blank	Cd (214.439 nm)	0.0005 (ppm)	66.64	0.0005 (ppm)	23.7875
10/31/2017 20:15:31	Continuing Calibration Blank	Co (230.786 nm)	0.0023 (ppm)	46.25	0.0023 (ppm)	19.4356
10/31/2017 20:15:31	Continuing Calibration Blank	Cr (267.716 nm)	0.0004 (ppm)	36.09	0.0004 (ppm)	18.0126
10/31/2017 20:15:31	Continuing Calibration Blank	Cu (327.395 nm)	0.0010 (ppm)	28.76	0.0010 (ppm)	77.7914
10/31/2017 20:15:31	Continuing Calibration Blank	Fe (234.350 nm)	0.0051 (ppm)	38.11	0.0051 (ppm)	68.6600
10/31/2017 20:15:31	Continuing Calibration Blank	K (766.491 nm)	0.0529 (ppm)	38.35	0.0529 (ppm)	150.8339
10/31/2017 20:15:31	Continuing Calibration Blank	Mg (279.078 nm)	0.0189 (ppm)	37.98	0.0189 (ppm)	35.7444
10/31/2017 20:15:31	Continuing Calibration Blank	Mn (257.610 nm)	0.0123 Z (ppm)	24.04	0.0123 (ppm)	3857.9815 Z
10/31/2017 20:15:31	Continuing Calibration Blank	Mo (202.032 nm)	0.0051 (ppm)	11.23	0.0051 (ppm)	59.0540
10/31/2017 20:15:31	Continuing Calibration Blank	Na (588.995 nm)	0.0065 (ppm)	> 100.00	0.0065 (ppm)	-5164.8787
10/31/2017 20:15:31	Continuing Calibration Blank	Ni (230.299 nm)	0.0013 (ppm)	55.47	0.0013 (ppm)	-12.0268
10/31/2017 20:15:31	Continuing Calibration Blank	Pb (220.353 nm)	0.0007 (ppm)	65.59	0.0007 (ppm)	6.5516
10/31/2017 20:15:31	Continuing Calibration Blank	Sb (217.582 nm)	0.0042 (ppm)	8.77	0.0042 (ppm)	6.5783
10/31/2017 20:15:31	Continuing Calibration Blank	Se (196.026 nm)	0.0027 (ppm)	> 100.00	0.0027 (ppm)	3.1166
10/31/2017 20:15:31	Continuing Calibration Blank	Sn (189.925 nm)	0.0049 (ppm)	51.91	0.0049 (ppm)	5.9143
10/31/2017 20:15:31	Continuing Calibration Blank	Sr (216.596 nm)	0.0020 (ppm)	42.56	0.0020 (ppm)	28.2879
10/31/2017 20:15:31	Continuing Calibration Blank	Ti (336.122 nm)	0.0029 (ppm)	26.00	0.0029 (ppm)	132.9634
10/31/2017 20:15:31	Continuing Calibration Blank	Tl (351.923 nm)	0.0029 (ppm)	20.80	0.0029 (ppm)	15.3435
10/31/2017 20:15:31	Continuing Calibration Blank	V (292.401 nm)	0.0023 (ppm)	31.22	0.0023 (ppm)	189.8247
10/31/2017 20:15:31	Continuing Calibration Blank	Y (360.074 nm)	0.97 (Ratio)	0.67	0.97 (Ratio)	828308.59
10/31/2017 20:15:31	Continuing Calibration Blank	Y_R (360.074 nm)	0.97 (Ratio)	0.67	0.97 (Ratio)	828961.47
10/31/2017 20:15:31	Continuing Calibration Blank	Zn (213.857 nm)	0.0009 (ppm)	41.96	0.0009 (ppm)	-2.7875
10/31/2017 20:18:49	Contract Required Detection Limit	Ag (328.068 nm)	0.0098 (ppm)	0.55	0.0098 (ppm)	598.4355
10/31/2017 20:18:49	Contract Required Detection Limit	Al (394.401 nm)	0.1790 (ppm)	0.70	0.1790 (ppm)	2416.8386
10/31/2017 20:18:49	Contract Required Detection Limit	As (188.980 nm)	0.0201 (ppm)	9.83	0.0201 (ppm)	16.5205
10/31/2017 20:18:49	Contract Required Detection Limit	B (249.772 nm)	0.1947 (ppm)	0.32	0.1947 (ppm)	5424.7914
10/31/2017 20:18:49	Contract Required Detection Limit	Ba (230.424 nm)	0.2189 (ppm)	0.86	0.2189 (ppm)	7362.7465
10/31/2017 20:18:49	Contract Required Detection Limit	Be (313.107 nm)	0.0050 (ppm)	0.64	0.0050 (ppm)	6892.5234
10/31/2017 20:18:49	Contract Required Detection Limit	Ca (227.547 nm)	1.0330 (ppm)	3.48	1.0330 (ppm)	62.5699
10/31/2017 20:18:49	Contract Required Detection Limit	Cd (214.439 nm)	0.0106 (ppm)	0.80	0.0106 (ppm)	242.5472
10/31/2017 20:18:49	Contract Required Detection Limit	Co (230.786 nm)	0.0535 (ppm)	0.82	0.0535 (ppm)	524.3943
10/31/2017 20:18:49	Contract Required Detection Limit	Cr (267.716 nm)	0.0106 (ppm)	0.33	0.0106 (ppm)	523.4210
10/31/2017 20:18:49	Contract Required Detection Limit	Cu (327.395 nm)	0.0248 (ppm)	0.91	0.0248 (ppm)	1552.8030
10/31/2017 20:18:49	Contract Required Detection Limit	Fe (234.350 nm)	0.1065 (ppm)	0.74	0.1065 (ppm)	1200.9327
10/31/2017 20:18:49	Contract Required Detection Limit	K (766.491 nm)	0.9516 (ppm)	1.04	0.9516 (ppm)	2862.3101
10/31/2017 20:18:49	Contract Required Detection Limit	Mg (279.078 nm)	1.0250 (ppm)	0.61	1.0250 (ppm)	1977.1851
10/31/2017 20:18:49	Contract Required Detection Limit	Mn (257.610 nm)	0.0452 R (ppm)	20.70	0.0452 (ppm)	14157.2681 R
10/31/2017 20:18:49	Contract Required Detection Limit	Mo (202.032 nm)	0.0272 (ppm)	2.06	0.0272 (ppm)	284.5398

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:18:49	Contract Required Detection Limit	Na (588.995 nm)	1.0006 (ppm)	0.74	1.0006 (ppm)	40043.5303
10/31/2017 20:18:49	Contract Required Detection Limit	Ni (230.299 nm)	0.0415 (ppm)	1.07	0.0415 (ppm)	259.0881
10/31/2017 20:18:49	Contract Required Detection Limit	Pb (220.353 nm)	0.0107 (ppm)	8.68	0.0107 (ppm)	27.9283
10/31/2017 20:18:49	Contract Required Detection Limit	Sb (217.582 nm)	0.0594 (ppm)	2.58	0.0594 (ppm)	81.9809
10/31/2017 20:18:49	Contract Required Detection Limit	Se (196.026 nm)	0.0091 (ppm)	7.64	0.0091 (ppm)	8.5277
10/31/2017 20:18:49	Contract Required Detection Limit	Sn (189.925 nm)	0.5235 (ppm)	0.77	0.5235 (ppm)	633.8823
10/31/2017 20:18:49	Contract Required Detection Limit	Sr (216.596 nm)	0.1048 (ppm)	0.99	0.1048 (ppm)	1487.1763
10/31/2017 20:18:49	Contract Required Detection Limit	Ti (336.122 nm)	0.0521 (ppm)	0.45	0.0521 (ppm)	10415.2135
10/31/2017 20:18:49	Contract Required Detection Limit	Tl (351.923 nm)	0.0210 (ppm)	8.94	0.0210 (ppm)	64.9649
10/31/2017 20:18:49	Contract Required Detection Limit	V (292.401 nm)	0.0513 (ppm)	0.73	0.0513 (ppm)	1921.0741
10/31/2017 20:18:49	Contract Required Detection Limit	Y (360.074 nm)	0.97 (Ratio)	0.74	0.97 (Ratio)	829905.16
10/31/2017 20:18:49	Contract Required Detection Limit	Y_R (360.074 nm)	0.97 (Ratio)	0.74	0.97 (Ratio)	830575.81
10/31/2017 20:18:49	Contract Required Detection Limit	Zn (213.857 nm)	0.0204 (ppm)	0.55	0.0204 (ppm)	543.9606
10/31/2017 20:22:08	Interference Check Solution A	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-95.9914
10/31/2017 20:22:08	Interference Check Solution A	Al (394.401 nm)	270.6386 o (ppm)	0.43	270.6386 (ppm)	3463676.5141
10/31/2017 20:22:08	Interference Check Solution A	As (188.980 nm)	0.0024 u (ppm)	> 100.00	0.0024 (ppm)	0.7008
10/31/2017 20:22:08	Interference Check Solution A	B (249.772 nm)	0.0420 (ppm)	0.51	0.0420 (ppm)	1197.5580
10/31/2017 20:22:08	Interference Check Solution A	Ba (230.424 nm)	0.0016 (ppm)	33.15	0.0016 (ppm)	55.8047
10/31/2017 20:22:08	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	16.35	0.0000 (ppm)	-573.4312
10/31/2017 20:22:08	Interference Check Solution A	Ca (227.547 nm)	274.5214 o (ppm)	0.28	274.5214 (ppm)	15458.7098
10/31/2017 20:22:08	Interference Check Solution A	Cd (214.439 nm)	-0.0008 u (ppm)	22.51	-0.0008 (ppm)	-3.2874
10/31/2017 20:22:08	Interference Check Solution A	Co (230.786 nm)	-0.0018 u (ppm)	22.48	-0.0018 (ppm)	-20.8783
10/31/2017 20:22:08	Interference Check Solution A	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	3.1850
10/31/2017 20:22:08	Interference Check Solution A	Cu (327.395 nm)	0.0007 (ppm)	2.47	0.0007 (ppm)	58.6152
10/31/2017 20:22:08	Interference Check Solution A	Fe (234.350 nm)	92.9028 o (ppm)	0.17	92.9028 (ppm)	1037666.3794
10/31/2017 20:22:08	Interference Check Solution A	K (766.491 nm)	0.0507 (ppm)	32.21	0.0507 (ppm)	144.1202
10/31/2017 20:22:08	Interference Check Solution A	Mg (279.078 nm)	277.0276 o (ppm)	0.11	277.0276 (ppm)	534574.9402
10/31/2017 20:22:08	Interference Check Solution A	Mn (257.610 nm)	0.0292 K (ppm)	27.34	0.0292 (ppm)	9171.0466 K
10/31/2017 20:22:08	Interference Check Solution A	Mo (202.032 nm)	0.0013 (ppm)	30.19	0.0013 (ppm)	20.0769
10/31/2017 20:22:08	Interference Check Solution A	Na (588.995 nm)	-0.0104 u (ppm)	18.58	-0.0104 (ppm)	-5935.1480
10/31/2017 20:22:08	Interference Check Solution A	Ni (230.299 nm)	-0.0026 u (ppm)	42.83	-0.0026 (ppm)	-37.7956
10/31/2017 20:22:08	Interference Check Solution A	Pb (220.353 nm)	-0.0010 u (ppm)	97.72	-0.0010 (ppm)	2.8677
10/31/2017 20:22:08	Interference Check Solution A	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.4212
10/31/2017 20:22:08	Interference Check Solution A	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.7679
10/31/2017 20:22:08	Interference Check Solution A	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.1091
10/31/2017 20:22:08	Interference Check Solution A	Sr (216.596 nm)	0.0204 (ppm)	3.28	0.0204 (ppm)	288.6534
10/31/2017 20:22:08	Interference Check Solution A	Ti (336.122 nm)	0.0019 (ppm)	3.37	0.0019 (ppm)	-88.1516
10/31/2017 20:22:08	Interference Check Solution A	Tl (351.923 nm)	0.0059 (ppm)	29.74	0.0059 (ppm)	23.5630
10/31/2017 20:22:08	Interference Check Solution A	V (292.401 nm)	0.0036 K (ppm)	11.25	0.0036 (ppm)	236.8040 K
10/31/2017 20:22:08	Interference Check Solution A	Y (360.074 nm)	0.85 (Ratio)	0.59	0.85 (Ratio)	724269.55
10/31/2017 20:22:08	Interference Check Solution A	Y_R (360.074 nm)	0.85 (Ratio)	0.58	0.85 (Ratio)	724789.96
10/31/2017 20:22:08	Interference Check Solution A	Zn (213.857 nm)	0.0117 K (ppm)	0.70	0.0117 (ppm)	299.8441 K
10/31/2017 20:25:27	Interference Check Solution AB	Ag (328.068 nm)	0.2125 (ppm)	0.60	0.2125 (ppm)	15078.4388
10/31/2017 20:25:27	Interference Check Solution AB	Al (394.401 nm)	259.7608 o (ppm)	0.86	259.7608 (ppm)	3324466.7608
10/31/2017 20:25:27	Interference Check Solution AB	As (188.980 nm)	0.0969 (ppm)	3.42	0.0969 (ppm)	85.1962
10/31/2017 20:25:27	Interference Check Solution AB	B (249.772 nm)	0.0400 (ppm)	0.91	0.0400 (ppm)	1142.1001
10/31/2017 20:25:27	Interference Check Solution AB	Ba (230.424 nm)	0.5230 (ppm)	0.55	0.5230 (ppm)	17584.5490
10/31/2017 20:25:27	Interference Check Solution AB	Be (313.107 nm)	0.5020 (ppm)	0.45	0.5020 (ppm)	741065.6733
10/31/2017 20:25:27	Interference Check Solution AB	Ca (227.547 nm)	261.1138 o (ppm)	0.73	261.1138 (ppm)	14703.9216
10/31/2017 20:25:27	Interference Check Solution AB	Cd (214.439 nm)	0.9641 (ppm)	0.65	0.9641 (ppm)	20885.3847
10/31/2017 20:25:27	Interference Check Solution AB	Co (230.786 nm)	0.4952 (ppm)	0.79	0.4952 (ppm)	4885.3380

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:25:27	Interference Check Solution AB	Cr (267.716 nm)	0.4918 (ppm)	0.58	0.4918 (ppm)	24350.4639
10/31/2017 20:25:27	Interference Check Solution AB	Cu (327.395 nm)	0.5168 (ppm)	0.67	0.5168 (ppm)	32095.7005
10/31/2017 20:25:27	Interference Check Solution AB	Fe (234.350 nm)	88.8542 o (ppm)	0.58	88.8542 (ppm)	992445.9625
10/31/2017 20:25:27	Interference Check Solution AB	K (766.491 nm)	0.0105 (ppm)	26.00	0.0105 (ppm)	22.8763
10/31/2017 20:25:27	Interference Check Solution AB	Mg (279.078 nm)	264.6518 o (ppm)	0.66	264.6518 (ppm)	510693.5792
10/31/2017 20:25:27	Interference Check Solution AB	Mn (257.610 nm)	0.5429 (ppm)	2.33	0.5429 (ppm)	170179.3329
10/31/2017 20:25:27	Interference Check Solution AB	Mo (202.032 nm)	0.0009 (ppm)	95.77	0.0009 (ppm)	16.6442
10/31/2017 20:25:27	Interference Check Solution AB	Na (588.995 nm)	0.0020 (ppm)	54.95	0.0020 (ppm)	-5371.2422
10/31/2017 20:25:27	Interference Check Solution AB	Ni (230.299 nm)	0.9528 (ppm)	0.62	0.9528 (ppm)	6397.9228
10/31/2017 20:25:27	Interference Check Solution AB	Pb (220.353 nm)	0.0483 (ppm)	1.95	0.0483 (ppm)	108.3434
10/31/2017 20:25:27	Interference Check Solution AB	Sb (217.582 nm)	0.6107 (ppm)	0.39	0.6107 (ppm)	836.0358
10/31/2017 20:25:27	Interference Check Solution AB	Se (196.026 nm)	0.0539 (ppm)	8.26	0.0539 (ppm)	46.9179
10/31/2017 20:25:27	Interference Check Solution AB	Sn (189.925 nm)	-0.0023 u (ppm)	54.74	-0.0023 (ppm)	-2.8412
10/31/2017 20:25:27	Interference Check Solution AB	Sr (216.596 nm)	0.0192 (ppm)	3.23	0.0192 (ppm)	271.9328
10/31/2017 20:25:27	Interference Check Solution AB	Ti (336.122 nm)	0.0015 (ppm)	5.05	0.0015 (ppm)	-162.2573
10/31/2017 20:25:27	Interference Check Solution AB	Tl (351.923 nm)	0.1163 (ppm)	4.62	0.1163 (ppm)	326.6424
10/31/2017 20:25:27	Interference Check Solution AB	V (292.401 nm)	0.5042 (ppm)	0.52	0.5042 (ppm)	17930.7749
10/31/2017 20:25:27	Interference Check Solution AB	Y (360.074 nm)	0.89 (Ratio)	1.25	0.89 (Ratio)	756465.11
10/31/2017 20:25:27	Interference Check Solution AB	Y_R (360.074 nm)	0.89 (Ratio)	1.25	0.89 (Ratio)	756999.25
10/31/2017 20:25:27	Interference Check Solution AB	Zn (213.857 nm)	1.0259 (ppm)	0.58	1.0259 (ppm)	28674.7082
10/31/2017 20:28:47	HLCCV2	Ag (328.068 nm)	2.1467 o (ppm)	0.11	2.1467 (ppm)	153273.8855
10/31/2017 20:28:47	HLCCV2	Al (394.401 nm)	526.9446 o (ppm)	0.08	526.9446 (ppm)	6743804.4055
10/31/2017 20:28:47	HLCCV2	As (188.980 nm)	4.0108 o (ppm)	0.10	4.0108 (ppm)	3583.8557
10/31/2017 20:28:47	HLCCV2	B (249.772 nm)	10.3188 o (ppm)	0.12	10.3188 (ppm)	285731.8500
10/31/2017 20:28:47	HLCCV2	Ba (230.424 nm)	37.6462 o (ppm)	0.69	37.6462 (ppm)	1265630.1420
10/31/2017 20:28:47	HLCCV2	Be (313.107 nm)	0.9692 o (ppm)	0.15	0.9692 (ppm)	1431228.9332
10/31/2017 20:28:47	HLCCV2	Ca (227.547 nm)	272.7681 o (ppm)	0.26	272.7681 (ppm)	15360.0066
10/31/2017 20:28:47	HLCCV2	Cd (214.439 nm)	1.8517 o (ppm)	0.06	1.8517 (ppm)	40102.0918
10/31/2017 20:28:47	HLCCV2	Co (230.786 nm)	9.2209 o (ppm)	0.42	9.2209 (ppm)	91032.0218
10/31/2017 20:28:47	HLCCV2	Cr (267.716 nm)	9.4288 o (ppm)	0.18	9.4288 (ppm)	466856.1579
10/31/2017 20:28:47	HLCCV2	Cu (327.395 nm)	5.3832 o (ppm)	0.11	5.3832 (ppm)	334228.1772
10/31/2017 20:28:47	HLCCV2	Fe (234.350 nm)	45.9582 o (ppm)	0.19	45.9582 (ppm)	513330.1928
10/31/2017 20:28:47	HLCCV2	K (766.491 nm)	168.9733 Qo (ppm)	0.09	168.9733 (ppm)	509831.7563 Q
10/31/2017 20:28:47	HLCCV2	Mg (279.078 nm)	512.5433 o (ppm)	0.18	512.5433 (ppm)	989045.9788
10/31/2017 20:28:47	HLCCV2	Mn (257.610 nm)	9.3689 o (ppm)	0.27	9.3689 (ppm)	2936580.3133
10/31/2017 20:28:47	HLCCV2	Mo (202.032 nm)	9.4969 o (ppm)	0.21	9.4969 (ppm)	96814.6018
10/31/2017 20:28:47	HLCCV2	Na (588.995 nm)	155.5645 o (ppm)	0.36	155.5645 (ppm)	7068794.1525
10/31/2017 20:28:47	HLCCV2	Ni (230.299 nm)	7.2891 o (ppm)	0.09	7.2891 (ppm)	49083.5837
10/31/2017 20:28:47	HLCCV2	Pb (220.353 nm)	9.3620 o (ppm)	0.04	9.3620 (ppm)	20007.5140
10/31/2017 20:28:47	HLCCV2	Sb (217.582 nm)	0.0315 (ppm)	15.29	0.0315 (ppm)	43.8709
10/31/2017 20:28:47	HLCCV2	Se (196.026 nm)	2.0457 o (ppm)	0.34	2.0457 (ppm)	1752.7625
10/31/2017 20:28:47	HLCCV2	Sn (189.925 nm)	-0.0178 u (ppm)	22.93	-0.0178 (ppm)	-21.6465
10/31/2017 20:28:47	HLCCV2	Sr (216.596 nm)	9.4888 o (ppm)	1.16	9.4888 (ppm)	134727.2121
10/31/2017 20:28:47	HLCCV2	Ti (336.122 nm)	9.8626 o (ppm)	0.13	9.8626 (ppm)	2063118.4669
10/31/2017 20:28:47	HLCCV2	Tl (351.923 nm)	4.4118 Qo (ppm)	0.09	4.4118 (ppm)	12125.3005 Q
10/31/2017 20:28:47	HLCCV2	V (292.401 nm)	9.7042 o (ppm)	0.17	9.7042 (ppm)	343121.3193
10/31/2017 20:28:47	HLCCV2	Y (360.074 nm)	0.85 (Ratio)	0.51	0.85 (Ratio)	721708.11
10/31/2017 20:28:47	HLCCV2	Y_R (360.074 nm)	0.85 (Ratio)	0.51	0.85 (Ratio)	722180.40
10/31/2017 20:28:47	HLCCV2	Zn (213.857 nm)	4.0229 o (ppm)	0.30	4.0229 (ppm)	112516.7549
10/31/2017 20:32:07	HLCCV3	Ag (328.068 nm)	0.0013 (ppm)	28.84	0.0013 (ppm)	-10.4414
10/31/2017 20:32:07	HLCCV3	Al (394.401 nm)	0.2746 (ppm)	31.06	0.2746 (ppm)	3640.6904

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:32:07	HLCCV3	As (188.980 nm)	0.0066 (ppm)	50.15	0.0066 (ppm)	4.3995
10/31/2017 20:32:07	HLCCV3	B (249.772 nm)	0.0331 (ppm)	11.59	0.0331 (ppm)	949.6214
10/31/2017 20:32:07	HLCCV3	Ba (230.424 nm)	0.0227 (ppm)	28.89	0.0227 (ppm)	765.3076
10/31/2017 20:32:07	HLCCV3	Be (313.107 nm)	0.0005 (ppm)	31.36	0.0005 (ppm)	238.4766
10/31/2017 20:32:07	HLCCV3	Ca (227.547 nm)	197.6661 o (ppm)	0.49	197.6661 (ppm)	11132.1071
10/31/2017 20:32:07	HLCCV3	Cd (214.439 nm)	0.0019 (ppm)	23.72	0.0019 (ppm)	53.9145
10/31/2017 20:32:07	HLCCV3	Co (230.786 nm)	0.0048 (ppm)	40.71	0.0048 (ppm)	43.4436
10/31/2017 20:32:07	HLCCV3	Cr (267.716 nm)	0.0050 (ppm)	32.16	0.0050 (ppm)	247.6807
10/31/2017 20:32:07	HLCCV3	Cu (327.395 nm)	4.0058 o (ppm)	1.32	4.0058 (ppm)	248711.8248
10/31/2017 20:32:07	HLCCV3	Fe (234.350 nm)	37.6045 o (ppm)	0.19	37.6045 (ppm)	420026.3091
10/31/2017 20:32:07	HLCCV3	K (766.491 nm)	97.5486 o (ppm)	0.52	97.5486 (ppm)	294323.1415
10/31/2017 20:32:07	HLCCV3	Mg (279.078 nm)	0.2636 (ppm)	32.11	0.2636 (ppm)	508.0373
10/31/2017 20:32:07	HLCCV3	Mn (257.610 nm)	0.0498 (ppm)	27.27	0.0498 (ppm)	15607.0299
10/31/2017 20:32:07	HLCCV3	Mo (202.032 nm)	0.0130 (ppm)	12.22	0.0130 (ppm)	139.7566
10/31/2017 20:32:07	HLCCV3	Na (588.995 nm)	0.1019 (ppm)	28.28	0.1019 (ppm)	-825.3820
10/31/2017 20:32:07	HLCCV3	Ni (230.299 nm)	-0.0253 u (ppm)	4.06	-0.0253 (ppm)	-191.3112
10/31/2017 20:32:07	HLCCV3	Pb (220.353 nm)	0.0052 (ppm)	36.85	0.0052 (ppm)	16.2382
10/31/2017 20:32:07	HLCCV3	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	0.5509
10/31/2017 20:32:07	HLCCV3	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.9734
10/31/2017 20:32:07	HLCCV3	Sn (189.925 nm)	-0.0020 u (ppm)	47.32	-0.0020 (ppm)	-2.5432
10/31/2017 20:32:07	HLCCV3	Sr (216.596 nm)	0.0109 (ppm)	16.27	0.0109 (ppm)	153.5020
10/31/2017 20:32:07	HLCCV3	Ti (336.122 nm)	0.0085 (ppm)	19.60	0.0085 (ppm)	1287.9222
10/31/2017 20:32:07	HLCCV3	Tl (351.923 nm)	2.9312 o (ppm)	0.35	2.9312 (ppm)	8058.4398
10/31/2017 20:32:07	HLCCV3	V (292.401 nm)	0.0069 (ppm)	24.09	0.0069 (ppm)	352.0777
10/31/2017 20:32:07	HLCCV3	Y (360.074 nm)	0.93 (Ratio)	0.59	0.93 (Ratio)	791422.57
10/31/2017 20:32:07	HLCCV3	Y_R (360.074 nm)	0.93 (Ratio)	0.59	0.93 (Ratio)	792003.32
10/31/2017 20:32:07	HLCCV3	Zn (213.857 nm)	0.0084 (ppm)	8.46	0.0084 (ppm)	208.6938
10/31/2017 20:35:27	HLCCV1	Ag (328.068 nm)	0.9930 (ppm)	0.25	0.9930 (ppm)	70842.4057
10/31/2017 20:35:27	HLCCV1	Al (394.401 nm)	19.9965 (ppm)	0.57	19.9965 (ppm)	256035.2281
10/31/2017 20:35:27	HLCCV1	As (188.980 nm)	1.9859 (ppm)	0.42	1.9859 (ppm)	1773.7982
10/31/2017 20:35:27	HLCCV1	B (249.772 nm)	4.9600 (ppm)	0.27	4.9600 (ppm)	137362.7244
10/31/2017 20:35:27	HLCCV1	Ba (230.424 nm)	19.8828 (ppm)	1.03	19.8828 (ppm)	668443.4623
10/31/2017 20:35:27	HLCCV1	Be (313.107 nm)	0.4977 (ppm)	0.28	0.4977 (ppm)	734699.3500
10/31/2017 20:35:27	HLCCV1	Ca (227.547 nm)	49.3713 (ppm)	0.48	49.3713 (ppm)	2783.7918
10/31/2017 20:35:27	HLCCV1	Cd (214.439 nm)	1.0012 (ppm)	0.46	1.0012 (ppm)	21688.1045
10/31/2017 20:35:27	HLCCV1	Co (230.786 nm)	4.9744 (ppm)	0.20	4.9744 (ppm)	49107.6871
10/31/2017 20:35:27	HLCCV1	Cr (267.716 nm)	1.0060 (ppm)	0.31	1.0060 (ppm)	49811.8543
10/31/2017 20:35:27	HLCCV1	Cu (327.395 nm)	2.4558 (ppm)	0.37	2.4558 (ppm)	152481.9563
10/31/2017 20:35:27	HLCCV1	Fe (234.350 nm)	10.0256 (ppm)	0.42	10.0256 (ppm)	111989.8472
10/31/2017 20:35:27	HLCCV1	K (766.491 nm)	49.2397 (ppm)	0.56	49.2397 (ppm)	148561.4111
10/31/2017 20:35:27	HLCCV1	Mg (279.078 nm)	50.2414 (ppm)	0.27	50.2414 (ppm)	96949.4301
10/31/2017 20:35:27	HLCCV1	Mn (257.610 nm)	1.5172 (ppm)	0.24	1.5172 (ppm)	475557.6015
10/31/2017 20:35:27	HLCCV1	Mo (202.032 nm)	4.9895 (ppm)	0.18	4.9895 (ppm)	50868.5661
10/31/2017 20:35:27	HLCCV1	Na (588.995 nm)	48.8960 (ppm)	0.61	48.8960 (ppm)	2218073.3720
10/31/2017 20:35:27	HLCCV1	Ni (230.299 nm)	3.9845 (ppm)	0.21	3.9845 (ppm)	26821.9194
10/31/2017 20:35:27	HLCCV1	Pb (220.353 nm)	1.0020 (ppm)	0.32	1.0020 (ppm)	2145.8367
10/31/2017 20:35:27	HLCCV1	Sb (217.582 nm)	9.8860 (ppm)	0.47	9.8860 (ppm)	13520.4825
10/31/2017 20:35:27	HLCCV1	Se (196.026 nm)	1.0003 (ppm)	0.23	1.0003 (ppm)	857.4270
10/31/2017 20:35:27	HLCCV1	Sn (189.925 nm)	10.0399 (ppm)	0.44	10.0399 (ppm)	12157.6618
10/31/2017 20:35:27	HLCCV1	Sr (216.596 nm)	5.0327 (ppm)	0.42	5.0327 (ppm)	71456.7679
10/31/2017 20:35:27	HLCCV1	Ti (336.122 nm)	4.9474 (ppm)	0.28	4.9474 (ppm)	1034678.1554

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:35:27	HLCCV1	Tl (351.923 nm)	1.9784 (ppm)	0.51	1.9784 (ppm)	5441.5123
10/31/2017 20:35:27	HLCCV1	V (292.401 nm)	4.9725 (ppm)	0.27	4.9725 (ppm)	175869.5867
10/31/2017 20:35:27	HLCCV1	Y (360.074 nm)	0.93 (Ratio)	0.65	0.93 (Ratio)	796002.29
10/31/2017 20:35:27	HLCCV1	Y_R (360.074 nm)	0.93 (Ratio)	0.65	0.93 (Ratio)	796601.67
10/31/2017 20:35:27	HLCCV1	Zn (213.857 nm)	2.0043 (ppm)	0.11	2.0043 (ppm)	56044.4154
10/31/2017 20:38:46	Continuing Calibration Verification1	Ag (328.068 nm)	0.4877 (ppm)	0.32	0.4877 (ppm)	34738.9785
10/31/2017 20:38:46	Continuing Calibration Verification1	Al (394.401 nm)	9.4423 (ppm)	0.99	9.4423 (ppm)	120966.0971
10/31/2017 20:38:46	Continuing Calibration Verification1	As (188.980 nm)	0.9642 (ppm)	0.59	0.9642 (ppm)	860.4925
10/31/2017 20:38:46	Continuing Calibration Verification1	B (249.772 nm)	2.4257 (ppm)	0.47	2.4257 (ppm)	67195.9205
10/31/2017 20:38:46	Continuing Calibration Verification1	Ba (230.424 nm)	10.3039 (ppm)	0.64	10.3039 (ppm)	346409.6801
10/31/2017 20:38:46	Continuing Calibration Verification1	Be (313.107 nm)	0.2524 (ppm)	0.55	0.2524 (ppm)	372271.0969
10/31/2017 20:38:46	Continuing Calibration Verification1	Ca (227.547 nm)	24.0162 (ppm)	0.70	24.0162 (ppm)	1356.4132
10/31/2017 20:38:46	Continuing Calibration Verification1	Cd (214.439 nm)	0.5054 (ppm)	0.40	0.5054 (ppm)	10956.1635
10/31/2017 20:38:46	Continuing Calibration Verification1	Co (230.786 nm)	2.6000 (ppm)	0.31	2.6000 (ppm)	25666.1322
10/31/2017 20:38:46	Continuing Calibration Verification1	Cr (267.716 nm)	0.5080 (ppm)	0.61	0.5080 (ppm)	25151.0330
10/31/2017 20:38:46	Continuing Calibration Verification1	Cu (327.395 nm)	1.1868 (ppm)	0.53	1.1868 (ppm)	73695.8667
10/31/2017 20:38:46	Continuing Calibration Verification1	Fe (234.350 nm)	4.8676 (ppm)	0.49	4.8676 (ppm)	54378.9669
10/31/2017 20:38:46	Continuing Calibration Verification1	K (766.491 nm)	24.2176 (ppm)	0.77	24.2176 (ppm)	73062.5527
10/31/2017 20:38:46	Continuing Calibration Verification1	Mg (279.078 nm)	25.2549 (ppm)	0.57	25.2549 (ppm)	48733.2327
10/31/2017 20:38:46	Continuing Calibration Verification1	Mn (257.610 nm)	0.7651 (ppm)	0.26	0.7651 (ppm)	239815.7115
10/31/2017 20:38:46	Continuing Calibration Verification1	Mo (202.032 nm)	2.4099 (ppm)	0.37	2.4099 (ppm)	24572.9240
10/31/2017 20:38:46	Continuing Calibration Verification1	Na (588.995 nm)	24.2496 (ppm)	0.79	24.2496 (ppm)	1097285.7165
10/31/2017 20:38:46	Continuing Calibration Verification1	Ni (230.299 nm)	2.0448 (ppm)	0.54	2.0448 (ppm)	13754.4386
10/31/2017 20:38:46	Continuing Calibration Verification1	Pb (220.353 nm)	0.5041 (ppm)	0.82	0.5041 (ppm)	1082.1417
10/31/2017 20:38:46	Continuing Calibration Verification1	Sb (217.582 nm)	4.8728 (ppm)	0.31	4.8728 (ppm)	6664.6133
10/31/2017 20:38:46	Continuing Calibration Verification1	Se (196.026 nm)	0.4867 (ppm)	2.12	0.4867 (ppm)	417.5883
10/31/2017 20:38:46	Continuing Calibration Verification1	Sn (189.925 nm)	5.1234 (ppm)	0.81	5.1234 (ppm)	6204.0187
10/31/2017 20:38:46	Continuing Calibration Verification1	Sr (216.596 nm)	2.5494 (ppm)	0.71	2.5494 (ppm)	36197.5701
10/31/2017 20:38:46	Continuing Calibration Verification1	Ti (336.122 nm)	2.4911 (ppm)	0.39	2.4911 (ppm)	520739.5706
10/31/2017 20:38:46	Continuing Calibration Verification1	Tl (351.923 nm)	0.9822 (ppm)	0.41	0.9822 (ppm)	2705.2159
10/31/2017 20:38:46	Continuing Calibration Verification1	V (292.401 nm)	2.5127 (ppm)	0.55	2.5127 (ppm)	88923.2372
10/31/2017 20:38:46	Continuing Calibration Verification1	Y (360.074 nm)	0.95 (Ratio)	0.83	0.95 (Ratio)	813319.44
10/31/2017 20:38:46	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95 (Ratio)	0.83	0.95 (Ratio)	813928.00
10/31/2017 20:38:46	Continuing Calibration Verification1	Zn (213.857 nm)	1.0085 (ppm)	0.46	1.0085 (ppm)	28187.7394
10/31/2017 20:42:05	Continuing Calibration Blank1	Ag (328.068 nm)	0.0004 (ppm)	75.23	0.0004 (ppm)	-73.9794
10/31/2017 20:42:05	Continuing Calibration Blank1	Al (394.401 nm)	0.0310 (ppm)	62.46	0.0310 (ppm)	522.9358
10/31/2017 20:42:05	Continuing Calibration Blank1	As (188.980 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-0.8245
10/31/2017 20:42:05	Continuing Calibration Blank1	B (249.772 nm)	0.0079 (ppm)	29.05	0.0079 (ppm)	253.1116
10/31/2017 20:42:05	Continuing Calibration Blank1	Ba (230.424 nm)	0.0124 (ppm)	85.56	0.0124 (ppm)	419.2025
10/31/2017 20:42:05	Continuing Calibration Blank1	Be (313.107 nm)	0.0002 (ppm)	62.43	0.0002 (ppm)	-167.5850
10/31/2017 20:42:05	Continuing Calibration Blank1	Ca (227.547 nm)	0.0546 (ppm)	73.91	0.0546 (ppm)	7.4904
10/31/2017 20:42:05	Continuing Calibration Blank1	Cd (214.439 nm)	0.0004 (ppm)	61.66	0.0004 (ppm)	22.9895
10/31/2017 20:42:05	Continuing Calibration Blank1	Co (230.786 nm)	0.0025 (ppm)	61.72	0.0025 (ppm)	20.6960
10/31/2017 20:42:05	Continuing Calibration Blank1	Cr (267.716 nm)	0.0009 (ppm)	56.86	0.0009 (ppm)	45.2576
10/31/2017 20:42:05	Continuing Calibration Blank1	Cu (327.395 nm)	0.0013 (ppm)	61.85	0.0013 (ppm)	93.6866
10/31/2017 20:42:05	Continuing Calibration Blank1	Fe (234.350 nm)	0.0079 (ppm)	59.13	0.0079 (ppm)	100.0000
10/31/2017 20:42:05	Continuing Calibration Blank1	K (766.491 nm)	0.0731 (ppm)	32.94	0.0731 (ppm)	211.7320
10/31/2017 20:42:05	Continuing Calibration Blank1	Mg (279.078 nm)	0.0434 (ppm)	62.33	0.0434 (ppm)	83.1454
10/31/2017 20:42:05	Continuing Calibration Blank1	Mn (257.610 nm)	0.0104 Z (ppm)	17.61	0.0104 (ppm)	3269.0643 Z
10/31/2017 20:42:05	Continuing Calibration Blank1	Mo (202.032 nm)	0.0061 (ppm)	23.91	0.0061 (ppm)	69.4213
10/31/2017 20:42:05	Continuing Calibration Blank1	Na (588.995 nm)	0.0084 u (ppm)	> 100.00	0.0084 (ppm)	-5078.6025

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:42:05	Continuing Calibration Blank1	Ni (230.299 nm)	0.0017 (ppm)	75.93	0.0017 (ppm)	-9.1368
10/31/2017 20:42:05	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.7382
10/31/2017 20:42:05	Continuing Calibration Blank1	Sb (217.582 nm)	0.0057 (ppm)	28.71	0.0057 (ppm)	8.6246
10/31/2017 20:42:05	Continuing Calibration Blank1	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	1.5120
10/31/2017 20:42:05	Continuing Calibration Blank1	Sn (189.925 nm)	0.0034 (ppm)	58.49	0.0034 (ppm)	4.0973
10/31/2017 20:42:05	Continuing Calibration Blank1	Sr (216.596 nm)	0.0021 (ppm)	80.48	0.0021 (ppm)	29.5004
10/31/2017 20:42:05	Continuing Calibration Blank1	Ti (336.122 nm)	0.0035 (ppm)	41.04	0.0035 (ppm)	257.5431
10/31/2017 20:42:05	Continuing Calibration Blank1	Tl (351.923 nm)	0.0038 (ppm)	63.16	0.0038 (ppm)	17.7660
10/31/2017 20:42:05	Continuing Calibration Blank1	V (292.401 nm)	0.0025 (ppm)	63.53	0.0025 (ppm)	198.0222
10/31/2017 20:42:05	Continuing Calibration Blank1	Y (360.074 nm)	0.99 (Ratio)	0.91	0.99 (Ratio)	843340.38
10/31/2017 20:42:05	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99 (Ratio)	0.91	0.99 (Ratio)	844058.60
10/31/2017 20:42:05	Continuing Calibration Blank1	Zn (213.857 nm)	0.0010 (ppm)	58.05	0.0010 (ppm)	0.4781
10/31/2017 20:45:24	PBW-301957	Ag (328.068 nm)	0.0001 (ppm)	74.34	0.0001 (ppm)	-93.2209
10/31/2017 20:45:24	PBW-301957	Al (394.401 nm)	0.0073 (ppm)	27.90	0.0073 (ppm)	219.2134
10/31/2017 20:45:24	PBW-301957	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-0.4902
10/31/2017 20:45:24	PBW-301957	B (249.772 nm)	0.0036 (ppm)	4.00	0.0036 (ppm)	133.7033
10/31/2017 20:45:24	PBW-301957	Ba (230.424 nm)	0.0012 (ppm)	25.66	0.0012 (ppm)	41.4811
10/31/2017 20:45:24	PBW-301957	Be (313.107 nm)	0.0000 (ppm)	7.76	0.0000 (ppm)	-482.5856
10/31/2017 20:45:24	PBW-301957	Ca (227.547 nm)	-0.0066 u (ppm)	> 100.00	-0.0066 (ppm)	4.0407
10/31/2017 20:45:24	PBW-301957	Cd (214.439 nm)	-0.0001 u (ppm)	70.78	-0.0001 (ppm)	11.1968
10/31/2017 20:45:24	PBW-301957	Co (230.786 nm)	0.0004 (ppm)	94.73	0.0004 (ppm)	-0.0961
10/31/2017 20:45:24	PBW-301957	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.7697
10/31/2017 20:45:24	PBW-301957	Cu (327.395 nm)	0.0002 (ppm)	58.16	0.0002 (ppm)	24.0054
10/31/2017 20:45:24	PBW-301957	Fe (234.350 nm)	0.0017 (ppm)	26.00	0.0017 (ppm)	30.4906
10/31/2017 20:45:24	PBW-301957	K (766.491 nm)	0.0313 (ppm)	19.70	0.0313 (ppm)	85.7031
10/31/2017 20:45:24	PBW-301957	Mg (279.078 nm)	0.0062 (ppm)	33.32	0.0062 (ppm)	11.2253
10/31/2017 20:45:24	PBW-301957	Mn (257.610 nm)	0.0175 (ppm)	33.13	0.0175 (ppm)	5494.2344
10/31/2017 20:45:24	PBW-301957	Mo (202.032 nm)	0.0016 (ppm)	8.88	0.0016 (ppm)	23.1613
10/31/2017 20:45:24	PBW-301957	Na (588.995 nm)	-0.0146 u (ppm)	6.67	-0.0146 (ppm)	-6122.2274
10/31/2017 20:45:24	PBW-301957	Ni (230.299 nm)	0.0008 (ppm)	42.69	0.0008 (ppm)	-15.5038
10/31/2017 20:45:24	PBW-301957	Pb (220.353 nm)	-0.0019 u (ppm)	62.75	-0.0019 (ppm)	1.0562
10/31/2017 20:45:24	PBW-301957	Sb (217.582 nm)	0.0010 (ppm)	> 100.00	0.0010 (ppm)	2.1233
10/31/2017 20:45:24	PBW-301957	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.7001
10/31/2017 20:45:24	PBW-301957	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.5590
10/31/2017 20:45:24	PBW-301957	Sr (216.596 nm)	0.0003 (ppm)	72.14	0.0003 (ppm)	3.5526
10/31/2017 20:45:24	PBW-301957	Ti (336.122 nm)	0.0011 (ppm)	7.66	0.0011 (ppm)	-242.8831
10/31/2017 20:45:24	PBW-301957	Tl (351.923 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	13.1583
10/31/2017 20:45:24	PBW-301957	V (292.401 nm)	0.0004 (ppm)	23.45	0.0004 (ppm)	123.6896
10/31/2017 20:45:24	PBW-301957	Y (360.074 nm)	0.99 (Ratio)	1.12	0.99 (Ratio)	841687.66
10/31/2017 20:45:24	PBW-301957	Y_R (360.074 nm)	0.99 (Ratio)	1.12	0.99 (Ratio)	842426.96
10/31/2017 20:45:24	PBW-301957	Zn (213.857 nm)	0.0016 (ppm)	4.27	0.0016 (ppm)	19.3718
10/31/2017 20:48:43	LCSW-301957	Ag (328.068 nm)	0.0494 (ppm)	0.50	0.0494 (ppm)	3425.1462
10/31/2017 20:48:43	LCSW-301957	Al (394.401 nm)	1.8380 (ppm)	0.54	1.8380 (ppm)	23647.9803
10/31/2017 20:48:43	LCSW-301957	As (188.980 nm)	0.0388 (ppm)	13.48	0.0388 (ppm)	33.2470
10/31/2017 20:48:43	LCSW-301957	B (249.772 nm)	0.9655 (ppm)	0.32	0.9655 (ppm)	26765.6210
10/31/2017 20:48:43	LCSW-301957	Ba (230.424 nm)	2.0791 (ppm)	0.36	2.0791 (ppm)	69899.2544
10/31/2017 20:48:43	LCSW-301957	Be (313.107 nm)	0.0503 (ppm)	0.46	0.0503 (ppm)	73849.1674
10/31/2017 20:48:43	LCSW-301957	Ca (227.547 nm)	1.8799 (ppm)	2.08	1.8799 (ppm)	110.2421
10/31/2017 20:48:43	LCSW-301957	Cd (214.439 nm)	0.0526 (ppm)	0.72	0.0526 (ppm)	1152.6491
10/31/2017 20:48:43	LCSW-301957	Co (230.786 nm)	0.5164 (ppm)	0.41	0.5164 (ppm)	5094.6452
10/31/2017 20:48:43	LCSW-301957	Cr (267.716 nm)	0.2003 (ppm)	0.41	0.2003 (ppm)	9914.2774

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:48:43	LCSW-301957	Cu (327.395 nm)	0.2386 (ppm)	0.82	0.2386 (ppm)	14828.3751
10/31/2017 20:48:43	LCSW-301957	Fe (234.350 nm)	0.9852 (ppm)	0.46	0.9852 (ppm)	11015.8610
10/31/2017 20:48:43	LCSW-301957	K (766.491 nm)	18.6732 (ppm)	0.46	18.6732 (ppm)	56333.5444
10/31/2017 20:48:43	LCSW-301957	Mg (279.078 nm)	2.0186 (ppm)	0.59	2.0186 (ppm)	3894.5243
10/31/2017 20:48:43	LCSW-301957	Mn (257.610 nm)	0.5101 (ppm)	0.41	0.5101 (ppm)	159876.5364
10/31/2017 20:48:43	LCSW-301957	Mo (202.032 nm)	0.4802 (ppm)	0.53	0.4802 (ppm)	4901.5867
10/31/2017 20:48:43	LCSW-301957	Na (588.995 nm)	18.9749 (ppm)	0.45	18.9749 (ppm)	857416.6448
10/31/2017 20:48:43	LCSW-301957	Ni (230.299 nm)	0.5160 (ppm)	0.61	0.5160 (ppm)	3455.4457
10/31/2017 20:48:43	LCSW-301957	Pb (220.353 nm)	0.5216 (ppm)	0.19	0.5216 (ppm)	1119.5444
10/31/2017 20:48:43	LCSW-301957	Sb (217.582 nm)	0.4973 (ppm)	0.18	0.4973 (ppm)	680.9283
10/31/2017 20:48:43	LCSW-301957	Se (196.026 nm)	1.0607 (ppm)	0.50	1.0607 (ppm)	909.1893
10/31/2017 20:48:43	LCSW-301957	Sn (189.925 nm)	5.1136 (ppm)	0.41	5.1136 (ppm)	6192.1581
10/31/2017 20:48:43	LCSW-301957	Sr (216.596 nm)	2.0693 (ppm)	0.29	2.0693 (ppm)	29380.4772
10/31/2017 20:48:43	LCSW-301957	Ti (336.122 nm)	0.4880 (ppm)	0.39	0.4880 (ppm)	101633.9403
10/31/2017 20:48:43	LCSW-301957	Tl (351.923 nm)	1.8496 (ppm)	0.27	1.8496 (ppm)	5087.7503
10/31/2017 20:48:43	LCSW-301957	V (292.401 nm)	0.4982 (ppm)	0.34	0.4982 (ppm)	17720.4672
10/31/2017 20:48:43	LCSW-301957	Y (360.074 nm)	0.97 (Ratio)	0.80	0.97 (Ratio)	825769.38
10/31/2017 20:48:43	LCSW-301957	Y_R (360.074 nm)	0.97 (Ratio)	0.80	0.97 (Ratio)	826408.70
10/31/2017 20:48:43	LCSW-301957	Zn (213.857 nm)	0.5122 (ppm)	0.41	0.5122 (ppm)	14302.7801
10/31/2017 20:52:03	R1710031-019	Ag (328.068 nm)	0.0000 (ppm)	86.99	0.0000 (ppm)	-100.1102
10/31/2017 20:52:03	R1710031-019	Al (394.401 nm)	0.0553 (ppm)	8.65	0.0553 (ppm)	833.1352
10/31/2017 20:52:03	R1710031-019	As (188.980 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-2.0707
10/31/2017 20:52:03	R1710031-019	B (249.772 nm)	0.0046 (ppm)	17.98	0.0046 (ppm)	160.0583
10/31/2017 20:52:03	R1710031-019	Ba (230.424 nm)	0.0046 (ppm)	27.83	0.0046 (ppm)	157.1780
10/31/2017 20:52:03	R1710031-019	Be (313.107 nm)	0.0001 (ppm)	29.43	0.0001 (ppm)	-399.0187
10/31/2017 20:52:03	R1710031-019	Ca (227.547 nm)	0.2339 (ppm)	7.38	0.2339 (ppm)	17.5805
10/31/2017 20:52:03	R1710031-019	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.3889
10/31/2017 20:52:03	R1710031-019	Co (230.786 nm)	0.0011 (ppm)	33.80	0.0011 (ppm)	7.1136
10/31/2017 20:52:03	R1710031-019	Cr (267.716 nm)	0.0008 (ppm)	31.48	0.0008 (ppm)	37.5153
10/31/2017 20:52:03	R1710031-019	Cu (327.395 nm)	0.0010 (ppm)	13.35	0.0010 (ppm)	74.7271
10/31/2017 20:52:03	R1710031-019	Fe (234.350 nm)	0.0084 (ppm)	12.69	0.0084 (ppm)	105.5553
10/31/2017 20:52:03	R1710031-019	K (766.491 nm)	0.0885 (ppm)	7.84	0.0885 (ppm)	258.0643
10/31/2017 20:52:03	R1710031-019	Mg (279.078 nm)	0.0340 (ppm)	13.06	0.0340 (ppm)	65.0132
10/31/2017 20:52:03	R1710031-019	Mn (257.610 nm)	0.0203 (ppm)	31.33	0.0203 (ppm)	6361.4694
10/31/2017 20:52:03	R1710031-019	Mo (202.032 nm)	0.0026 (ppm)	4.77	0.0026 (ppm)	33.9608
10/31/2017 20:52:03	R1710031-019	Na (588.995 nm)	0.5781 (ppm)	2.47	0.5781 (ppm)	20828.8924
10/31/2017 20:52:03	R1710031-019	Ni (230.299 nm)	0.0002 (ppm)	44.22	0.0002 (ppm)	-19.1181
10/31/2017 20:52:03	R1710031-019	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.9027
10/31/2017 20:52:03	R1710031-019	Sb (217.582 nm)	0.0017 (ppm)	72.92	0.0017 (ppm)	3.1516
10/31/2017 20:52:03	R1710031-019	Se (196.026 nm)	0.0032 u (ppm)	> 100.00	0.0032 (ppm)	3.5021
10/31/2017 20:52:03	R1710031-019	Sn (189.925 nm)	0.0057 (ppm)	45.23	0.0057 (ppm)	6.8057
10/31/2017 20:52:03	R1710031-019	Sr (216.596 nm)	0.0034 (ppm)	38.42	0.0034 (ppm)	47.1077
10/31/2017 20:52:03	R1710031-019	Ti (336.122 nm)	0.0020 (ppm)	14.49	0.0020 (ppm)	-72.2044
10/31/2017 20:52:03	R1710031-019	Tl (351.923 nm)	0.0050 (ppm)	56.98	0.0050 (ppm)	21.1701
10/31/2017 20:52:03	R1710031-019	V (292.401 nm)	0.0009 (ppm)	39.68	0.0009 (ppm)	142.0869
10/31/2017 20:52:03	R1710031-019	Y (360.074 nm)	0.99 (Ratio)	0.64	0.99 (Ratio)	844546.73
10/31/2017 20:52:03	R1710031-019	Y_R (360.074 nm)	0.99 (Ratio)	0.64	0.99 (Ratio)	845252.39
10/31/2017 20:52:03	R1710031-019	Zn (213.857 nm)	0.0025 (ppm)	10.32	0.0025 (ppm)	42.5681
10/31/2017 20:55:21	R1710033-001	Ag (328.068 nm)	0.0002 (ppm)	71.64	0.0002 (ppm)	-89.4044
10/31/2017 20:55:21	R1710033-001	Al (394.401 nm)	0.0744 (ppm)	4.25	0.0744 (ppm)	1078.5679
10/31/2017 20:55:21	R1710033-001	As (188.980 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.3007

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:55:21	R1710033-001	B (249.772 nm)	0.1311 (ppm)	0.12	0.1311 (ppm)	3664.8916
10/31/2017 20:55:21	R1710033-001	Ba (230.424 nm)	0.1171 (ppm)	0.18	0.1171 (ppm)	3939.7172
10/31/2017 20:55:21	R1710033-001	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-535.8727
10/31/2017 20:55:21	R1710033-001	Ca (227.547 nm)	715.5956 o (ppm)	0.17	715.5956 (ppm)	40289.1564
10/31/2017 20:55:21	R1710033-001	Cd (214.439 nm)	0.0006 (ppm)	26.83	0.0006 (ppm)	26.5658
10/31/2017 20:55:21	R1710033-001	Co (230.786 nm)	0.0014 (ppm)	12.63	0.0014 (ppm)	10.2128
10/31/2017 20:55:21	R1710033-001	Cr (267.716 nm)	0.0005 (ppm)	14.33	0.0005 (ppm)	21.5297
10/31/2017 20:55:21	R1710033-001	Cu (327.395 nm)	0.0003 (ppm)	46.89	0.0003 (ppm)	32.3498
10/31/2017 20:55:21	R1710033-001	Fe (234.350 nm)	39.0583 o (ppm)	0.37	39.0583 (ppm)	436263.8479
10/31/2017 20:55:21	R1710033-001	K (766.491 nm)	437.0180 o (ppm)	0.28	437.0180 (ppm)	1318598.9929
10/31/2017 20:55:21	R1710033-001	Mg (279.078 nm)	230.3163 o (ppm)	0.33	230.3163 (ppm)	444437.0086
10/31/2017 20:55:21	R1710033-001	Mn (257.610 nm)	0.3990 (ppm)	3.59	0.3990 (ppm)	125071.6965
10/31/2017 20:55:21	R1710033-001	Mo (202.032 nm)	0.0013 (ppm)	35.58	0.0013 (ppm)	20.1983
10/31/2017 20:55:21	R1710033-001	Na (588.995 nm)	#### (ppm)	N/A	#### (ppm)	####
10/31/2017 20:55:21	R1710033-001	Ni (230.299 nm)	-0.0170 u (ppm)	2.58	-0.0170 (ppm)	-134.8542
10/31/2017 20:55:21	R1710033-001	Pb (220.353 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	0.0078
10/31/2017 20:55:21	R1710033-001	Sb (217.582 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	-1.9703
10/31/2017 20:55:21	R1710033-001	Se (196.026 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	1.3008
10/31/2017 20:55:21	R1710033-001	Sn (189.925 nm)	-0.0024 u (ppm)	90.47	-0.0024 (ppm)	-2.9757
10/31/2017 20:55:21	R1710033-001	Sr (216.596 nm)	6.0411 o (ppm)	0.20	6.0411 (ppm)	85775.3335
10/31/2017 20:55:21	R1710033-001	Ti (336.122 nm)	0.0056 (ppm)	1.54	0.0056 (ppm)	693.0547
10/31/2017 20:55:21	R1710033-001	Tl (351.923 nm)	0.0184 (ppm)	15.95	0.0184 (ppm)	57.9532
10/31/2017 20:55:21	R1710033-001	V (292.401 nm)	0.0033 (ppm)	2.25	0.0033 (ppm)	224.5007
10/31/2017 20:55:21	R1710033-001	Y (360.074 nm)	0.78 (Ratio)	0.99	0.78 (Ratio)	668485.33
10/31/2017 20:55:21	R1710033-001	Y_R (360.074 nm)	0.78 (Ratio)	0.99	0.78 (Ratio)	668903.81
10/31/2017 20:55:21	R1710033-001	Zn (213.857 nm)	0.0080 (ppm)	0.94	0.0080 (ppm)	198.4250
10/31/2017 20:58:40	R1710033-002	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-95.0667
10/31/2017 20:58:40	R1710033-002	Al (394.401 nm)	0.0351 (ppm)	2.37	0.0351 (ppm)	575.3616
10/31/2017 20:58:40	R1710033-002	As (188.980 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-2.3830
10/31/2017 20:58:40	R1710033-002	B (249.772 nm)	0.5422 (ppm)	0.23	0.5422 (ppm)	15045.8289
10/31/2017 20:58:40	R1710033-002	Ba (230.424 nm)	0.8922 (ppm)	0.11	0.8922 (ppm)	29995.7566
10/31/2017 20:58:40	R1710033-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-525.1076
10/31/2017 20:58:40	R1710033-002	Ca (227.547 nm)	106.9025 o (ppm)	0.70	106.9025 (ppm)	6022.5326
10/31/2017 20:58:40	R1710033-002	Cd (214.439 nm)	0.0005 (ppm)	27.48	0.0005 (ppm)	23.6998
10/31/2017 20:58:40	R1710033-002	Co (230.786 nm)	-0.0003 u (ppm)	53.49	-0.0003 (ppm)	-6.4982
10/31/2017 20:58:40	R1710033-002	Cr (267.716 nm)	0.0038 (ppm)	2.78	0.0038 (ppm)	186.2232
10/31/2017 20:58:40	R1710033-002	Cu (327.395 nm)	0.0005 (ppm)	3.09	0.0005 (ppm)	43.9220
10/31/2017 20:58:40	R1710033-002	Fe (234.350 nm)	40.0363 o (ppm)	0.31	40.0363 (ppm)	447187.1922
10/31/2017 20:58:40	R1710033-002	K (766.491 nm)	23.2439 (ppm)	1.11	23.2439 (ppm)	70124.6744
10/31/2017 20:58:40	R1710033-002	Mg (279.078 nm)	44.6038 (ppm)	0.39	44.6038 (ppm)	86070.6142
10/31/2017 20:58:40	R1710033-002	Mn (257.610 nm)	0.2305 (ppm)	6.08	0.2305 (ppm)	72247.3769
10/31/2017 20:58:40	R1710033-002	Mo (202.032 nm)	0.0011 (ppm)	18.11	0.0011 (ppm)	18.0982
10/31/2017 20:58:40	R1710033-002	Na (588.995 nm)	30.1686 (ppm)	1.65	30.1686 (ppm)	1366447.8214
10/31/2017 20:58:40	R1710033-002	Ni (230.299 nm)	-0.0145 u (ppm)	12.24	-0.0145 (ppm)	-118.4769
10/31/2017 20:58:40	R1710033-002	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	3.1323
10/31/2017 20:58:40	R1710033-002	Sb (217.582 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	0.0436
10/31/2017 20:58:40	R1710033-002	Se (196.026 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-0.7720
10/31/2017 20:58:40	R1710033-002	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.7562
10/31/2017 20:58:40	R1710033-002	Sr (216.596 nm)	1.0308 (ppm)	0.29	1.0308 (ppm)	14635.9206
10/31/2017 20:58:40	R1710033-002	Ti (336.122 nm)	0.0016 (ppm)	0.98	0.0016 (ppm)	-139.6310
10/31/2017 20:58:40	R1710033-002	Tl (351.923 nm)	0.0023 u (ppm)	98.66	0.0023 (ppm)	13.6928

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 20:58:40	R1710033-002	V (292.401 nm)	0.0020 (ppm)	11.74	0.0020 (ppm)	180.7738
10/31/2017 20:58:40	R1710033-002	Y (360.074 nm)	0.93 (Ratio)	0.79	0.93 (Ratio)	793843.69
10/31/2017 20:58:40	R1710033-002	Y_R (360.074 nm)	0.93 (Ratio)	0.79	0.93 (Ratio)	794435.64
10/31/2017 20:58:40	R1710033-002	Zn (213.857 nm)	0.0087 (ppm)	0.83	0.0087 (ppm)	216.3245
10/31/2017 21:02:00	R1710033-003	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-98.6743
10/31/2017 21:02:00	R1710033-003	Al (394.401 nm)	1.5484 (ppm)	0.61	1.5484 (ppm)	19941.9720
10/31/2017 21:02:00	R1710033-003	As (188.980 nm)	-0.0012 u (ppm)	88.64	-0.0012 (ppm)	-2.5057
10/31/2017 21:02:00	R1710033-003	B (249.772 nm)	1.3996 (ppm)	0.49	1.3996 (ppm)	38784.2596
10/31/2017 21:02:00	R1710033-003	Ba (230.424 nm)	0.7365 (ppm)	1.32	0.7365 (ppm)	24762.6227
10/31/2017 21:02:00	R1710033-003	Be (313.107 nm)	0.0001 (ppm)	5.01	0.0001 (ppm)	-419.1020
10/31/2017 21:02:00	R1710033-003	Ca (227.547 nm)	144.3443 o (ppm)	0.52	144.3443 (ppm)	8130.3360
10/31/2017 21:02:00	R1710033-003	Cd (214.439 nm)	0.0001 (ppm)	74.28	0.0001 (ppm)	14.9951
10/31/2017 21:02:00	R1710033-003	Co (230.786 nm)	0.0015 (ppm)	10.91	0.0015 (ppm)	11.4283
10/31/2017 21:02:00	R1710033-003	Cr (267.716 nm)	0.0048 (ppm)	1.25	0.0048 (ppm)	237.4561
10/31/2017 21:02:00	R1710033-003	Cu (327.395 nm)	0.0019 (ppm)	7.21	0.0019 (ppm)	132.3179
10/31/2017 21:02:00	R1710033-003	Fe (234.350 nm)	5.6604 (ppm)	0.53	5.6604 (ppm)	63233.8366
10/31/2017 21:02:00	R1710033-003	K (766.491 nm)	170.8181 o (ppm)	0.55	170.8181 (ppm)	515398.0951
10/31/2017 21:02:00	R1710033-003	Mg (279.078 nm)	51.0589 (ppm)	0.49	51.0589 (ppm)	98526.9632
10/31/2017 21:02:00	R1710033-003	Mn (257.610 nm)	0.2479 (ppm)	6.53	0.2479 (ppm)	77696.2881
10/31/2017 21:02:00	R1710033-003	Mo (202.032 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	10.5189
10/31/2017 21:02:00	R1710033-003	Na (588.995 nm)	461.2627 o (ppm)	0.59	461.2627 (ppm)	20970337.0096
10/31/2017 21:02:00	R1710033-003	Ni (230.299 nm)	-0.0086 u (ppm)	19.01	-0.0086 (ppm)	-78.5511
10/31/2017 21:02:00	R1710033-003	Pb (220.353 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	2.2175
10/31/2017 21:02:00	R1710033-003	Sb (217.582 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.5219
10/31/2017 21:02:00	R1710033-003	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	1.0785
10/31/2017 21:02:00	R1710033-003	Sn (189.925 nm)	-0.0020 u (ppm)	57.57	-0.0020 (ppm)	-2.4514
10/31/2017 21:02:00	R1710033-003	Sr (216.596 nm)	1.5975 (ppm)	1.07	1.5975 (ppm)	22680.9960
10/31/2017 21:02:00	R1710033-003	Ti (336.122 nm)	0.0617 (ppm)	2.26	0.0617 (ppm)	12434.7230
10/31/2017 21:02:00	R1710033-003	Tl (351.923 nm)	0.0033 (ppm)	96.56	0.0033 (ppm)	16.3119
10/31/2017 21:02:00	R1710033-003	V (292.401 nm)	0.0089 (ppm)	2.04	0.0089 (ppm)	422.8895
10/31/2017 21:02:00	R1710033-003	Y (360.074 nm)	0.87 (Ratio)	0.71	0.87 (Ratio)	746106.38
10/31/2017 21:02:00	R1710033-003	Y_R (360.074 nm)	0.87 (Ratio)	0.71	0.87 (Ratio)	746555.71
10/31/2017 21:02:00	R1710033-003	Zn (213.857 nm)	0.0165 (ppm)	1.00	0.0165 (ppm)	433.5249
10/31/2017 21:05:19	R1710033-004	Ag (328.068 nm)	0.0002 (ppm)	59.46	0.0002 (ppm)	-91.1382
10/31/2017 21:05:19	R1710033-004	Al (394.401 nm)	0.0525 (ppm)	1.43	0.0525 (ppm)	797.9220
10/31/2017 21:05:19	R1710033-004	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-0.7701
10/31/2017 21:05:19	R1710033-004	B (249.772 nm)	0.0962 (ppm)	0.76	0.0962 (ppm)	2697.5357
10/31/2017 21:05:19	R1710033-004	Ba (230.424 nm)	0.0221 (ppm)	1.33	0.0221 (ppm)	746.2357
10/31/2017 21:05:19	R1710033-004	Be (313.107 nm)	0.0000 (ppm)	24.58	0.0000 (ppm)	-542.2210
10/31/2017 21:05:19	R1710033-004	Ca (227.547 nm)	132.7602 o (ppm)	0.68	132.7602 (ppm)	7478.2026
10/31/2017 21:05:19	R1710033-004	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.4022
10/31/2017 21:05:19	R1710033-004	Co (230.786 nm)	0.0010 (ppm)	23.44	0.0010 (ppm)	6.1329
10/31/2017 21:05:19	R1710033-004	Cr (267.716 nm)	0.4576 (ppm)	0.55	0.4576 (ppm)	22658.2746
10/31/2017 21:05:19	R1710033-004	Cu (327.395 nm)	0.0057 (ppm)	1.76	0.0057 (ppm)	367.5135
10/31/2017 21:05:19	R1710033-004	Fe (234.350 nm)	1.5071 (ppm)	0.60	1.5071 (ppm)	16845.0415
10/31/2017 21:05:19	R1710033-004	K (766.491 nm)	0.9987 (ppm)	5.64	0.9987 (ppm)	3004.6686
10/31/2017 21:05:19	R1710033-004	Mg (279.078 nm)	59.2148 o (ppm)	0.52	59.2148 (ppm)	114265.2544
10/31/2017 21:05:19	R1710033-004	Mn (257.610 nm)	0.0701 (ppm)	8.42	0.0701 (ppm)	21962.6636
10/31/2017 21:05:19	R1710033-004	Mo (202.032 nm)	0.0037 (ppm)	3.90	0.0037 (ppm)	45.1407
10/31/2017 21:05:19	R1710033-004	Na (588.995 nm)	179.1359 o (ppm)	0.57	179.1359 (ppm)	8140598.3270
10/31/2017 21:05:19	R1710033-004	Ni (230.299 nm)	0.2558 (ppm)	1.09	0.2558 (ppm)	1702.6189

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:05:19	R1710033-004	Pb (220.353 nm)	-0.0021 u (ppm)	78.81	-0.0021 (ppm)	0.5025
10/31/2017 21:05:19	R1710033-004	Sb (217.582 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-0.7143
10/31/2017 21:05:19	R1710033-004	Se (196.026 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	-1.3983
10/31/2017 21:05:19	R1710033-004	Sn (189.925 nm)	-0.0024 u (ppm)	75.87	-0.0024 (ppm)	-2.9970
10/31/2017 21:05:19	R1710033-004	Sr (216.596 nm)	0.3025 (ppm)	0.57	0.3025 (ppm)	4293.9069
10/31/2017 21:05:19	R1710033-004	Ti (336.122 nm)	0.0018 (ppm)	4.13	0.0018 (ppm)	-105.7494
10/31/2017 21:05:19	R1710033-004	Tl (351.923 nm)	0.0043 (ppm)	64.04	0.0043 (ppm)	19.2081
10/31/2017 21:05:19	R1710033-004	V (292.401 nm)	0.0029 (ppm)	7.03	0.0029 (ppm)	210.6977
10/31/2017 21:05:19	R1710033-004	Y (360.074 nm)	0.92 (Ratio)	0.71	0.92 (Ratio)	788032.27
10/31/2017 21:05:19	R1710033-004	Y_R (360.074 nm)	0.92 (Ratio)	0.71	0.92 (Ratio)	788522.15
10/31/2017 21:05:19	R1710033-004	Zn (213.857 nm)	0.0057 (ppm)	0.46	0.0057 (ppm)	132.4961
10/31/2017 21:08:38	R1710033-005	Ag (328.068 nm)	0.0001 (ppm)	91.89	0.0001 (ppm)	-93.6923
10/31/2017 21:08:38	R1710033-005	Al (394.401 nm)	0.0365 (ppm)	3.97	0.0365 (ppm)	592.6182
10/31/2017 21:08:38	R1710033-005	As (188.980 nm)	0.0036 u (ppm)	> 100.00	0.0036 (ppm)	1.7625
10/31/2017 21:08:38	R1710033-005	B (249.772 nm)	0.2224 (ppm)	0.33	0.2224 (ppm)	6190.2583
10/31/2017 21:08:38	R1710033-005	Ba (230.424 nm)	0.1720 (ppm)	0.78	0.1720 (ppm)	5783.8232
10/31/2017 21:08:38	R1710033-005	Be (313.107 nm)	0.0000 (ppm)	15.21	0.0000 (ppm)	-543.4340
10/31/2017 21:08:38	R1710033-005	Ca (227.547 nm)	163.0403 o (ppm)	0.79	163.0403 (ppm)	9182.8334
10/31/2017 21:08:38	R1710033-005	Cd (214.439 nm)	0.0007 (ppm)	10.96	0.0007 (ppm)	29.1569
10/31/2017 21:08:38	R1710033-005	Co (230.786 nm)	0.0017 (ppm)	11.79	0.0017 (ppm)	12.8008
10/31/2017 21:08:38	R1710033-005	Cr (267.716 nm)	0.0010 (ppm)	38.60	0.0010 (ppm)	50.6384
10/31/2017 21:08:38	R1710033-005	Cu (327.395 nm)	0.0009 (ppm)	6.81	0.0009 (ppm)	69.3484
10/31/2017 21:08:38	R1710033-005	Fe (234.350 nm)	21.7284 o (ppm)	0.47	21.7284 (ppm)	242701.4803
10/31/2017 21:08:38	R1710033-005	K (766.491 nm)	11.8091 (ppm)	0.84	11.8091 (ppm)	35622.4600
10/31/2017 21:08:38	R1710033-005	Mg (279.078 nm)	81.8652 o (ppm)	0.46	81.8652 (ppm)	157973.3300
10/31/2017 21:08:38	R1710033-005	Mn (257.610 nm)	0.5652 (ppm)	0.71	0.5652 (ppm)	177166.9547
10/31/2017 21:08:38	R1710033-005	Mo (202.032 nm)	0.0050 (ppm)	4.59	0.0050 (ppm)	58.4254
10/31/2017 21:08:38	R1710033-005	Na (588.995 nm)	78.2701 o (ppm)	1.03	78.2701 (ppm)	3553849.5814
10/31/2017 21:08:38	R1710033-005	Ni (230.299 nm)	0.0164 (ppm)	6.73	0.0164 (ppm)	89.7365
10/31/2017 21:08:38	R1710033-005	Pb (220.353 nm)	-0.0012 u (ppm)	35.43	-0.0012 (ppm)	2.5410
10/31/2017 21:08:38	R1710033-005	Sb (217.582 nm)	-0.0050 u (ppm)	67.76	-0.0050 (ppm)	-6.0356
10/31/2017 21:08:38	R1710033-005	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	0.1960
10/31/2017 21:08:38	R1710033-005	Sn (189.925 nm)	-0.0029 u (ppm)	> 100.00	-0.0029 (ppm)	-3.5830
10/31/2017 21:08:38	R1710033-005	Sr (216.596 nm)	1.2978 (ppm)	0.76	1.2978 (ppm)	18426.4469
10/31/2017 21:08:38	R1710033-005	Ti (336.122 nm)	0.0016 (ppm)	3.30	0.0016 (ppm)	-156.5290
10/31/2017 21:08:38	R1710033-005	Tl (351.923 nm)	0.0037 (ppm)	85.64	0.0037 (ppm)	17.4373
10/31/2017 21:08:38	R1710033-005	V (292.401 nm)	0.0012 (ppm)	7.28	0.0012 (ppm)	152.9285
10/31/2017 21:08:38	R1710033-005	Y (360.074 nm)	0.93 (Ratio)	0.96	0.93 (Ratio)	789614.14
10/31/2017 21:08:38	R1710033-005	Y_R (360.074 nm)	0.92 (Ratio)	0.96	0.92 (Ratio)	790079.64
10/31/2017 21:08:38	R1710033-005	Zn (213.857 nm)	0.3674 (ppm)	1.10	0.3674 (ppm)	10250.4737
10/31/2017 21:11:58	R1710033-005S	Ag (328.068 nm)	0.0509 (ppm)	0.56	0.0509 (ppm)	3529.7192
10/31/2017 21:11:58	R1710033-005S	Al (394.401 nm)	2.0496 (ppm)	0.57	2.0496 (ppm)	26356.4487
10/31/2017 21:11:58	R1710033-005S	As (188.980 nm)	0.0450 (ppm)	11.44	0.0450 (ppm)	38.8006
10/31/2017 21:11:58	R1710033-005S	B (249.772 nm)	1.2222 (ppm)	0.31	1.2222 (ppm)	33872.3669
10/31/2017 21:11:58	R1710033-005S	Ba (230.424 nm)	2.1851 (ppm)	0.26	2.1851 (ppm)	73462.6923
10/31/2017 21:11:58	R1710033-005S	Be (313.107 nm)	0.0497 (ppm)	0.38	0.0497 (ppm)	72964.0597
10/31/2017 21:11:58	R1710033-005S	Ca (227.547 nm)	164.1595 o (ppm)	0.57	164.1595 (ppm)	9245.8414
10/31/2017 21:11:58	R1710033-005S	Cd (214.439 nm)	0.0500 (ppm)	0.63	0.0500 (ppm)	1095.9438
10/31/2017 21:11:58	R1710033-005S	Co (230.786 nm)	0.4918 (ppm)	0.32	0.4918 (ppm)	4851.6093
10/31/2017 21:11:58	R1710033-005S	Cr (267.716 nm)	0.1963 (ppm)	0.32	0.1963 (ppm)	9717.1010
10/31/2017 21:11:58	R1710033-005S	Cu (327.395 nm)	0.2452 (ppm)	0.56	0.2452 (ppm)	15238.5499

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:11:58	R1710033-005S	Fe (234.350 nm)	22.4529 o (ppm)	0.39	22.4529 (ppm)	250793.5268
10/31/2017 21:11:58	R1710033-005S	K (766.491 nm)	32.6271 (ppm)	0.73	32.6271 (ppm)	98436.3562
10/31/2017 21:11:58	R1710033-005S	Mg (279.078 nm)	83.1284 o (ppm)	0.34	83.1284 (ppm)	160410.9624
10/31/2017 21:11:58	R1710033-005S	Mn (257.610 nm)	1.0405 (ppm)	0.14	1.0405 (ppm)	326145.9286
10/31/2017 21:11:58	R1710033-005S	Mo (202.032 nm)	0.4840 (ppm)	0.42	0.4840 (ppm)	4940.5247
10/31/2017 21:11:58	R1710033-005S	Na (588.995 nm)	95.1745 o (ppm)	1.05	95.1745 (ppm)	4322573.1264
10/31/2017 21:11:58	R1710033-005S	Ni (230.299 nm)	0.5031 (ppm)	0.28	0.5031 (ppm)	3368.4314
10/31/2017 21:11:58	R1710033-005S	Pb (220.353 nm)	0.4941 (ppm)	0.46	0.4941 (ppm)	1060.6348
10/31/2017 21:11:58	R1710033-005S	Sb (217.582 nm)	0.5190 (ppm)	0.50	0.5190 (ppm)	710.5300
10/31/2017 21:11:58	R1710033-005S	Se (196.026 nm)	1.1168 o (ppm)	0.84	1.1168 (ppm)	957.2444
10/31/2017 21:11:58	R1710033-005S	Sn (189.925 nm)	5.0912 (ppm)	0.60	5.0912 (ppm)	6165.1307
10/31/2017 21:11:58	R1710033-005S	Sr (216.596 nm)	3.2550 (ppm)	0.25	3.2550 (ppm)	46216.5070
10/31/2017 21:11:58	R1710033-005S	Ti (336.122 nm)	0.4917 (ppm)	0.46	0.4917 (ppm)	102399.9665
10/31/2017 21:11:58	R1710033-005S	Tl (351.923 nm)	2.0055 (ppm)	0.47	2.0055 (ppm)	5515.9502
10/31/2017 21:11:58	R1710033-005S	V (292.401 nm)	0.5004 (ppm)	0.45	0.5004 (ppm)	17795.2703
10/31/2017 21:11:58	R1710033-005S	Y (360.074 nm)	0.92 (Ratio)	0.80	0.92 (Ratio)	785601.61
10/31/2017 21:11:58	R1710033-005S	Y_R (360.074 nm)	0.92 (Ratio)	0.80	0.92 (Ratio)	786025.34
10/31/2017 21:11:58	R1710033-005S	Zn (213.857 nm)	0.8714 (ppm)	0.19	0.8714 (ppm)	24352.2531
10/31/2017 21:15:17	R1710033-005SD	Ag (328.068 nm)	0.0513 (ppm)	0.21	0.0513 (ppm)	3562.5862
10/31/2017 21:15:17	R1710033-005SD	Al (394.401 nm)	2.0690 (ppm)	0.50	2.0690 (ppm)	26604.1495
10/31/2017 21:15:17	R1710033-005SD	As (188.980 nm)	0.0430 (ppm)	14.43	0.0430 (ppm)	37.0224
10/31/2017 21:15:17	R1710033-005SD	B (249.772 nm)	1.2317 (ppm)	0.33	1.2317 (ppm)	34135.8195
10/31/2017 21:15:17	R1710033-005SD	Ba (230.424 nm)	2.2012 (ppm)	0.47	2.2012 (ppm)	74002.8792
10/31/2017 21:15:17	R1710033-005SD	Be (313.107 nm)	0.0501 (ppm)	0.42	0.0501 (ppm)	73458.3831
10/31/2017 21:15:17	R1710033-005SD	Ca (227.547 nm)	164.5045 o (ppm)	0.42	164.5045 (ppm)	9265.2602
10/31/2017 21:15:17	R1710033-005SD	Cd (214.439 nm)	0.0503 (ppm)	0.88	0.0503 (ppm)	1102.3981
10/31/2017 21:15:17	R1710033-005SD	Co (230.786 nm)	0.4941 (ppm)	0.61	0.4941 (ppm)	4874.6749
10/31/2017 21:15:17	R1710033-005SD	Cr (267.716 nm)	0.1978 (ppm)	0.39	0.1978 (ppm)	9794.9995
10/31/2017 21:15:17	R1710033-005SD	Cu (327.395 nm)	0.2472 (ppm)	0.74	0.2472 (ppm)	15362.4731
10/31/2017 21:15:17	R1710033-005SD	Fe (234.350 nm)	22.4837 o (ppm)	0.39	22.4837 (ppm)	251137.9608
10/31/2017 21:15:17	R1710033-005SD	K (766.491 nm)	32.8433 (ppm)	0.50	32.8433 (ppm)	99088.8918
10/31/2017 21:15:17	R1710033-005SD	Mg (279.078 nm)	83.2493 o (ppm)	0.39	83.2493 (ppm)	160644.2549
10/31/2017 21:15:17	R1710033-005SD	Mn (257.610 nm)	1.0444 (ppm)	0.32	1.0444 (ppm)	327349.2417
10/31/2017 21:15:17	R1710033-005SD	Mo (202.032 nm)	0.4875 (ppm)	0.35	0.4875 (ppm)	4976.1129
10/31/2017 21:15:17	R1710033-005SD	Na (588.995 nm)	95.5799 o (ppm)	0.50	95.5799 (ppm)	4341008.2987
10/31/2017 21:15:17	R1710033-005SD	Ni (230.299 nm)	0.5062 (ppm)	0.49	0.5062 (ppm)	3389.1789
10/31/2017 21:15:17	R1710033-005SD	Pb (220.353 nm)	0.4985 (ppm)	0.72	0.4985 (ppm)	1070.0831
10/31/2017 21:15:17	R1710033-005SD	Sb (217.582 nm)	0.5189 (ppm)	0.56	0.5189 (ppm)	710.4691
10/31/2017 21:15:17	R1710033-005SD	Se (196.026 nm)	1.1185 o (ppm)	0.61	1.1185 (ppm)	958.6425
10/31/2017 21:15:17	R1710033-005SD	Sn (189.925 nm)	5.0924 (ppm)	0.36	5.0924 (ppm)	6166.5703
10/31/2017 21:15:17	R1710033-005SD	Sr (216.596 nm)	3.2842 (ppm)	0.07	3.2842 (ppm)	46630.8968
10/31/2017 21:15:17	R1710033-005SD	Ti (336.122 nm)	0.4942 (ppm)	0.43	0.4942 (ppm)	102920.0137
10/31/2017 21:15:17	R1710033-005SD	Tl (351.923 nm)	2.0217 (ppm)	0.60	2.0217 (ppm)	5560.2328
10/31/2017 21:15:17	R1710033-005SD	V (292.401 nm)	0.5051 (ppm)	0.27	0.5051 (ppm)	17960.9408
10/31/2017 21:15:17	R1710033-005SD	Y (360.074 nm)	0.92 (Ratio)	0.73	0.92 (Ratio)	788702.74
10/31/2017 21:15:17	R1710033-005SD	Y_R (360.074 nm)	0.92 (Ratio)	0.73	0.92 (Ratio)	789138.74
10/31/2017 21:15:17	R1710033-005SD	Zn (213.857 nm)	0.8762 (ppm)	0.23	0.8762 (ppm)	24486.1576
10/31/2017 21:18:35	Continuing Calibration Verification1	Ag (328.068 nm)	0.4816 (ppm)	0.20	0.4816 (ppm)	34309.6448
10/31/2017 21:18:35	Continuing Calibration Verification1	Al (394.401 nm)	9.2844 (ppm)	0.28	9.2844 (ppm)	118944.9587
10/31/2017 21:18:35	Continuing Calibration Verification1	As (188.980 nm)	0.9493 (ppm)	0.39	0.9493 (ppm)	847.1609
10/31/2017 21:18:35	Continuing Calibration Verification1	B (249.772 nm)	2.3861 (ppm)	0.22	2.3861 (ppm)	66097.1338

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:18:35	Continuing Calibration Verification1	Ba (230.424 nm)	10.1637 (ppm)	0.14	10.1637 (ppm)	341696.0435
10/31/2017 21:18:35	Continuing Calibration Verification1	Be (313.107 nm)	0.2489 (ppm)	0.19	0.2489 (ppm)	367133.1583
10/31/2017 21:18:35	Continuing Calibration Verification1	Ca (227.547 nm)	23.7747 (ppm)	0.84	23.7747 (ppm)	1342.8184
10/31/2017 21:18:35	Continuing Calibration Verification1	Cd (214.439 nm)	0.4959 (ppm)	0.24	0.4959 (ppm)	10748.6133
10/31/2017 21:18:35	Continuing Calibration Verification1	Co (230.786 nm)	2.5608 (ppm)	0.24	2.5608 (ppm)	25278.5202
10/31/2017 21:18:35	Continuing Calibration Verification1	Cr (267.716 nm)	0.4999 (ppm)	0.26	0.4999 (ppm)	24752.2893
10/31/2017 21:18:35	Continuing Calibration Verification1	Cu (327.395 nm)	1.1719 (ppm)	0.29	1.1719 (ppm)	72772.2386
10/31/2017 21:18:35	Continuing Calibration Verification1	Fe (234.350 nm)	4.8035 (ppm)	0.31	4.8035 (ppm)	53663.2832
10/31/2017 21:18:35	Continuing Calibration Verification1	K (766.491 nm)	24.0748 (ppm)	0.45	24.0748 (ppm)	72631.8023
10/31/2017 21:18:35	Continuing Calibration Verification1	Mg (279.078 nm)	24.8829 (ppm)	0.30	24.8829 (ppm)	48015.4977
10/31/2017 21:18:35	Continuing Calibration Verification1	Mn (257.610 nm)	0.7519 (ppm)	0.16	0.7519 (ppm)	235665.1001
10/31/2017 21:18:35	Continuing Calibration Verification1	Mo (202.032 nm)	2.3705 (ppm)	0.16	2.3705 (ppm)	24171.5103
10/31/2017 21:18:35	Continuing Calibration Verification1	Na (588.995 nm)	24.1191 (ppm)	0.56	24.1191 (ppm)	1091350.7415
10/31/2017 21:18:35	Continuing Calibration Verification1	Ni (230.299 nm)	2.0118 (ppm)	0.25	2.0118 (ppm)	13531.8886
10/31/2017 21:18:35	Continuing Calibration Verification1	Pb (220.353 nm)	0.4960 (ppm)	0.51	0.4960 (ppm)	1064.8879
10/31/2017 21:18:35	Continuing Calibration Verification1	Sb (217.582 nm)	4.8242 (ppm)	0.42	4.8242 (ppm)	6598.2047
10/31/2017 21:18:35	Continuing Calibration Verification1	Se (196.026 nm)	0.4860 (ppm)	1.24	0.4860 (ppm)	416.9555
10/31/2017 21:18:35	Continuing Calibration Verification1	Sn (189.925 nm)	5.0614 (ppm)	0.12	5.0614 (ppm)	6129.0435
10/31/2017 21:18:35	Continuing Calibration Verification1	Sr (216.596 nm)	2.5169 (ppm)	0.22	2.5169 (ppm)	35736.3275
10/31/2017 21:18:35	Continuing Calibration Verification1	Ti (336.122 nm)	2.4563 (ppm)	0.23	2.4563 (ppm)	513456.6329
10/31/2017 21:18:35	Continuing Calibration Verification1	Tl (351.923 nm)	0.9693 (ppm)	0.21	0.9693 (ppm)	2669.6616
10/31/2017 21:18:35	Continuing Calibration Verification1	V (292.401 nm)	2.4777 (ppm)	0.14	2.4777 (ppm)	87688.4218
10/31/2017 21:18:35	Continuing Calibration Verification1	Y (360.074 nm)	0.96 (Ratio)	0.61	0.96 (Ratio)	822388.80
10/31/2017 21:18:35	Continuing Calibration Verification1	Y_R (360.074 nm)	0.96 (Ratio)	0.61	0.96 (Ratio)	822886.66
10/31/2017 21:18:35	Continuing Calibration Verification1	Zn (213.857 nm)	0.9952 (ppm)	0.19	0.9952 (ppm)	27815.8240
10/31/2017 21:21:55	Continuing Calibration Blank1	Ag (328.068 nm)	0.0003 (ppm)	23.85	0.0003 (ppm)	-82.7718
10/31/2017 21:21:55	Continuing Calibration Blank1	Al (394.401 nm)	0.0065 (ppm)	24.41	0.0065 (ppm)	208.7060
10/31/2017 21:21:55	Continuing Calibration Blank1	As (188.980 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	0.4585
10/31/2017 21:21:55	Continuing Calibration Blank1	B (249.772 nm)	0.0060 (ppm)	16.54	0.0060 (ppm)	200.2693
10/31/2017 21:21:55	Continuing Calibration Blank1	Ba (230.424 nm)	0.0098 (ppm)	21.05	0.0098 (ppm)	332.6055
10/31/2017 21:21:55	Continuing Calibration Blank1	Be (313.107 nm)	0.0002 (ppm)	15.19	0.0002 (ppm)	-185.9442
10/31/2017 21:21:55	Continuing Calibration Blank1	Ca (227.547 nm)	0.0101 u (ppm)	> 100.00	0.0101 (ppm)	4.9842
10/31/2017 21:21:55	Continuing Calibration Blank1	Cd (214.439 nm)	0.0005 (ppm)	30.25	0.0005 (ppm)	23.5540
10/31/2017 21:21:55	Continuing Calibration Blank1	Co (230.786 nm)	0.0023 (ppm)	24.08	0.0023 (ppm)	18.9683
10/31/2017 21:21:55	Continuing Calibration Blank1	Cr (267.716 nm)	0.0004 (ppm)	35.96	0.0004 (ppm)	19.0874
10/31/2017 21:21:55	Continuing Calibration Blank1	Cu (327.395 nm)	0.0011 (ppm)	27.19	0.0011 (ppm)	78.6692
10/31/2017 21:21:55	Continuing Calibration Blank1	Fe (234.350 nm)	0.0055 (ppm)	16.47	0.0055 (ppm)	73.7318
10/31/2017 21:21:55	Continuing Calibration Blank1	K (766.491 nm)	0.0635 (ppm)	16.33	0.0635 (ppm)	182.6188
10/31/2017 21:21:55	Continuing Calibration Blank1	Mg (279.078 nm)	0.0206 (ppm)	21.53	0.0206 (ppm)	39.0315
10/31/2017 21:21:55	Continuing Calibration Blank1	Mn (257.610 nm)	0.0076 (ppm)	25.31	0.0076 (ppm)	2393.2695
10/31/2017 21:21:55	Continuing Calibration Blank1	Mo (202.032 nm)	0.0049 (ppm)	5.83	0.0049 (ppm)	56.8722
10/31/2017 21:21:55	Continuing Calibration Blank1	Na (588.995 nm)	0.0163 (ppm)	26.08	0.0163 (ppm)	-4720.1836
10/31/2017 21:21:55	Continuing Calibration Blank1	Ni (230.299 nm)	0.0016 (ppm)	54.08	0.0016 (ppm)	-9.8957
10/31/2017 21:21:55	Continuing Calibration Blank1	Pb (220.353 nm)	0.0008 (ppm)	49.12	0.0008 (ppm)	6.7789
10/31/2017 21:21:55	Continuing Calibration Blank1	Sb (217.582 nm)	0.0053 (ppm)	14.78	0.0053 (ppm)	8.0623
10/31/2017 21:21:55	Continuing Calibration Blank1	Se (196.026 nm)	0.0024 u (ppm)	> 100.00	0.0024 (ppm)	2.8605
10/31/2017 21:21:55	Continuing Calibration Blank1	Sn (189.925 nm)	0.0047 (ppm)	19.52	0.0047 (ppm)	5.6500
10/31/2017 21:21:55	Continuing Calibration Blank1	Sr (216.596 nm)	0.0021 (ppm)	19.13	0.0021 (ppm)	29.7185
10/31/2017 21:21:55	Continuing Calibration Blank1	Ti (336.122 nm)	0.0031 (ppm)	13.67	0.0031 (ppm)	158.3222
10/31/2017 21:21:55	Continuing Calibration Blank1	Tl (351.923 nm)	0.0036 (ppm)	9.40	0.0036 (ppm)	17.0996
10/31/2017 21:21:55	Continuing Calibration Blank1	V (292.401 nm)	0.0022 (ppm)	19.75	0.0022 (ppm)	188.2088

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:21:55	Continuing Calibration Blank1	Y (360.074 nm)	1.01 (Ratio)	0.72	1.01 (Ratio)	858939.65
10/31/2017 21:21:55	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01 (Ratio)	0.72	1.01 (Ratio)	859502.57
10/31/2017 21:21:55	Continuing Calibration Blank1	Zn (213.857 nm)	0.0009 (ppm)	21.01	0.0009 (ppm)	-1.8433
10/31/2017 21:25:14	R1710033-005A	Ag (328.068 nm)	0.0493 (ppm)	0.61	0.0493 (ppm)	3417.5680
10/31/2017 21:25:14	R1710033-005A	Al (394.401 nm)	2.0039 (ppm)	0.65	2.0039 (ppm)	25771.7646
10/31/2017 21:25:14	R1710033-005A	As (188.980 nm)	0.0443 (ppm)	0.47	0.0443 (ppm)	38.1198
10/31/2017 21:25:14	R1710033-005A	B (249.772 nm)	1.3240 (ppm)	0.47	1.3240 (ppm)	36691.2337
10/31/2017 21:25:14	R1710033-005A	Ba (230.424 nm)	2.1214 (ppm)	0.68	2.1214 (ppm)	71319.7697
10/31/2017 21:25:14	R1710033-005A	Be (313.107 nm)	0.0481 (ppm)	0.49	0.0481 (ppm)	70550.0411
10/31/2017 21:25:14	R1710033-005A	Ca (227.547 nm)	161.3684 o (ppm)	0.48	161.3684 (ppm)	9088.7156
10/31/2017 21:25:14	R1710033-005A	Cd (214.439 nm)	0.0483 (ppm)	0.77	0.0483 (ppm)	1060.3052
10/31/2017 21:25:14	R1710033-005A	Co (230.786 nm)	0.4747 (ppm)	0.39	0.4747 (ppm)	4683.0060
10/31/2017 21:25:14	R1710033-005A	Cr (267.716 nm)	0.1900 (ppm)	0.47	0.1900 (ppm)	9404.5842
10/31/2017 21:25:14	R1710033-005A	Cu (327.395 nm)	0.2364 (ppm)	0.48	0.2364 (ppm)	14688.2988
10/31/2017 21:25:14	R1710033-005A	Fe (234.350 nm)	22.0648 o (ppm)	0.51	22.0648 (ppm)	246458.7838
10/31/2017 21:25:14	R1710033-005A	K (766.491 nm)	31.6897 (ppm)	0.60	31.6897 (ppm)	95608.1016
10/31/2017 21:25:14	R1710033-005A	Mg (279.078 nm)	81.8973 o (ppm)	0.52	81.8973 (ppm)	158035.3119
10/31/2017 21:25:14	R1710033-005A	Mn (257.610 nm)	1.0328 (ppm)	0.63	1.0328 (ppm)	323708.6596
10/31/2017 21:25:14	R1710033-005A	Mo (202.032 nm)	0.4720 (ppm)	0.34	0.4720 (ppm)	4818.6090
10/31/2017 21:25:14	R1710033-005A	Na (588.995 nm)	93.7332 o (ppm)	0.70	93.7332 (ppm)	4257029.5138
10/31/2017 21:25:14	R1710033-005A	Ni (230.299 nm)	0.4864 (ppm)	0.43	0.4864 (ppm)	3255.9998
10/31/2017 21:25:14	R1710033-005A	Pb (220.353 nm)	0.4768 (ppm)	0.83	0.4768 (ppm)	1023.8213
10/31/2017 21:25:14	R1710033-005A	Sb (217.582 nm)	0.5007 (ppm)	0.91	0.5007 (ppm)	685.5362
10/31/2017 21:25:14	R1710033-005A	Se (196.026 nm)	1.1591 o (ppm)	0.85	1.1591 (ppm)	993.4094
10/31/2017 21:25:14	R1710033-005A	Sn (189.925 nm)	4.9455 (ppm)	0.67	4.9455 (ppm)	5988.6832
10/31/2017 21:25:14	R1710033-005A	Sr (216.596 nm)	3.2467 (ppm)	0.30	3.2467 (ppm)	46098.0680
10/31/2017 21:25:14	R1710033-005A	Ti (336.122 nm)	0.4769 (ppm)	0.72	0.4769 (ppm)	99302.5997
10/31/2017 21:25:14	R1710033-005A	Tl (351.923 nm)	1.9354 (ppm)	0.48	1.9354 (ppm)	5323.2048
10/31/2017 21:25:14	R1710033-005A	V (292.401 nm)	0.4842 (ppm)	0.50	0.4842 (ppm)	17223.0379
10/31/2017 21:25:14	R1710033-005A	Y (360.074 nm)	0.93 (Ratio)	0.75	0.93 (Ratio)	790754.14
10/31/2017 21:25:14	R1710033-005A	Y_R (360.074 nm)	0.93 (Ratio)	0.75	0.93 (Ratio)	791171.06
10/31/2017 21:25:14	R1710033-005A	Zn (213.857 nm)	0.8534 (ppm)	0.76	0.8534 (ppm)	23849.0800
10/31/2017 21:28:33	R1710033-005L	Ag (328.068 nm)	0.0001 (ppm)	80.83	0.0001 (ppm)	-98.2896
10/31/2017 21:28:33	R1710033-005L	Al (394.401 nm)	0.0164 (ppm)	5.38	0.0164 (ppm)	336.0282
10/31/2017 21:28:33	R1710033-005L	As (188.980 nm)	0.0023 (ppm)	51.73	0.0023 (ppm)	0.6285
10/31/2017 21:28:33	R1710033-005L	B (249.772 nm)	0.0442 (ppm)	1.95	0.0442 (ppm)	1257.5580
10/31/2017 21:28:33	R1710033-005L	Ba (230.424 nm)	0.0364 (ppm)	1.06	0.0364 (ppm)	1226.1612
10/31/2017 21:28:33	R1710033-005L	Be (313.107 nm)	0.0001 (ppm)	11.55	0.0001 (ppm)	-445.1130
10/31/2017 21:28:33	R1710033-005L	Ca (227.547 nm)	30.0492 (ppm)	0.82	30.0492 (ppm)	1696.0478
10/31/2017 21:28:33	R1710033-005L	Cd (214.439 nm)	0.0003 (ppm)	16.45	0.0003 (ppm)	21.1491
10/31/2017 21:28:33	R1710033-005L	Co (230.786 nm)	0.0010 (ppm)	19.18	0.0010 (ppm)	6.2658
10/31/2017 21:28:33	R1710033-005L	Cr (267.716 nm)	0.0001 (ppm)	54.33	0.0001 (ppm)	4.7323
10/31/2017 21:28:33	R1710033-005L	Cu (327.395 nm)	0.0004 (ppm)	46.53	0.0004 (ppm)	39.8425
10/31/2017 21:28:33	R1710033-005L	Fe (234.350 nm)	4.4311 (ppm)	0.31	4.4311 (ppm)	49503.7143
10/31/2017 21:28:33	R1710033-005L	K (766.491 nm)	2.1198 (ppm)	1.03	2.1198 (ppm)	6387.2159
10/31/2017 21:28:33	R1710033-005L	Mg (279.078 nm)	15.6934 (ppm)	0.32	15.6934 (ppm)	30282.6187
10/31/2017 21:28:33	R1710033-005L	Mn (257.610 nm)	0.1184 (ppm)	1.70	0.1184 (ppm)	37104.0633
10/31/2017 21:28:33	R1710033-005L	Mo (202.032 nm)	0.0027 (ppm)	6.12	0.0027 (ppm)	34.8469
10/31/2017 21:28:33	R1710033-005L	Na (588.995 nm)	15.1798 (ppm)	0.72	15.1798 (ppm)	684836.2898
10/31/2017 21:28:33	R1710033-005L	Ni (230.299 nm)	0.0037 (ppm)	12.85	0.0037 (ppm)	4.1335
10/31/2017 21:28:33	R1710033-005L	Pb (220.353 nm)	-0.0017 u (ppm)	26.34	-0.0017 (ppm)	1.5187

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:28:33	R1710033-005L	Sb (217.582 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-0.9358
10/31/2017 21:28:33	R1710033-005L	Se (196.026 nm)	0.0033 (ppm)	36.97	0.0033 (ppm)	3.5781
10/31/2017 21:28:33	R1710033-005L	Sn (189.925 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.5451
10/31/2017 21:28:33	R1710033-005L	Sr (216.596 nm)	0.2649 (ppm)	0.38	0.2649 (ppm)	3760.9026
10/31/2017 21:28:33	R1710033-005L	Ti (336.122 nm)	0.0009 (ppm)	6.16	0.0009 (ppm)	-289.3889
10/31/2017 21:28:33	R1710033-005L	Tl (351.923 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	11.8618
10/31/2017 21:28:33	R1710033-005L	V (292.401 nm)	0.0006 (ppm)	63.58	0.0006 (ppm)	129.0207
10/31/2017 21:28:33	R1710033-005L	Y (360.074 nm)	0.98 (Ratio)	0.77	0.98 (Ratio)	838684.41
10/31/2017 21:28:33	R1710033-005L	Y_R (360.074 nm)	0.98 (Ratio)	0.77	0.98 (Ratio)	839214.46
10/31/2017 21:28:33	R1710033-005L	Zn (213.857 nm)	0.0731 (ppm)	0.54	0.0731 (ppm)	2017.0912
10/31/2017 21:31:53	K1710862-001	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-107.3906
10/31/2017 21:31:53	K1710862-001	Al (394.401 nm)	0.0201 (ppm)	2.25	0.0201 (ppm)	382.9386
10/31/2017 21:31:53	K1710862-001	As (188.980 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-1.6076
10/31/2017 21:31:53	K1710862-001	B (249.772 nm)	0.0075 (ppm)	1.59	0.0075 (ppm)	240.6270
10/31/2017 21:31:53	K1710862-001	Ba (230.424 nm)	0.0134 (ppm)	1.59	0.0134 (ppm)	453.2508
10/31/2017 21:31:53	K1710862-001	Be (313.107 nm)	0.0000 (ppm)	49.58	0.0000 (ppm)	-502.9220
10/31/2017 21:31:53	K1710862-001	Ca (227.547 nm)	2.0794 (ppm)	3.38	2.0794 (ppm)	121.4721
10/31/2017 21:31:53	K1710862-001	Cd (214.439 nm)	-0.0001 u (ppm)	88.23	-0.0001 (ppm)	12.0455
10/31/2017 21:31:53	K1710862-001	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.8095
10/31/2017 21:31:53	K1710862-001	Cr (267.716 nm)	0.0001 (ppm)	47.21	0.0001 (ppm)	2.1896
10/31/2017 21:31:53	K1710862-001	Cu (327.395 nm)	0.0029 (ppm)	3.40	0.0029 (ppm)	193.7759
10/31/2017 21:31:53	K1710862-001	Fe (234.350 nm)	0.8051 (ppm)	0.35	0.8051 (ppm)	9003.8698
10/31/2017 21:31:53	K1710862-001	K (766.491 nm)	0.9661 (ppm)	1.15	0.9661 (ppm)	2906.1560
10/31/2017 21:31:53	K1710862-001	Mg (279.078 nm)	1.1059 (ppm)	0.51	1.1059 (ppm)	2133.3574
10/31/2017 21:31:53	K1710862-001	Mn (257.610 nm)	0.0335 (ppm)	20.76	0.0335 (ppm)	10509.5905
10/31/2017 21:31:53	K1710862-001	Mo (202.032 nm)	0.0005 (ppm)	13.08	0.0005 (ppm)	12.3114
10/31/2017 21:31:53	K1710862-001	Na (588.995 nm)	3.2400 (ppm)	0.51	3.2400 (ppm)	141877.4871
10/31/2017 21:31:53	K1710862-001	Ni (230.299 nm)	-0.0035 u (ppm)	8.31	-0.0035 (ppm)	-44.2018
10/31/2017 21:31:53	K1710862-001	Pb (220.353 nm)	0.0028 (ppm)	11.31	0.0028 (ppm)	11.0969
10/31/2017 21:31:53	K1710862-001	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.3358
10/31/2017 21:31:53	K1710862-001	Se (196.026 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	-0.9266
10/31/2017 21:31:53	K1710862-001	Sn (189.925 nm)	0.0012 (ppm)	57.72	0.0012 (ppm)	1.4294
10/31/2017 21:31:53	K1710862-001	Sr (216.596 nm)	0.0176 (ppm)	1.00	0.0176 (ppm)	249.5457
10/31/2017 21:31:53	K1710862-001	Ti (336.122 nm)	0.0012 (ppm)	5.18	0.0012 (ppm)	-224.9343
10/31/2017 21:31:53	K1710862-001	Tl (351.923 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	9.6467
10/31/2017 21:31:53	K1710862-001	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	111.0560
10/31/2017 21:31:53	K1710862-001	Y (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	863553.52
10/31/2017 21:31:53	K1710862-001	Y_R (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	864128.20
10/31/2017 21:31:53	K1710862-001	Zn (213.857 nm)	0.0029 (ppm)	6.52	0.0029 (ppm)	53.7762
10/31/2017 21:35:12	K1710862-002	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-105.6343
10/31/2017 21:35:12	K1710862-002	Al (394.401 nm)	0.0211 (ppm)	1.55	0.0211 (ppm)	395.5493
10/31/2017 21:35:12	K1710862-002	As (188.980 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-1.9659
10/31/2017 21:35:12	K1710862-002	B (249.772 nm)	0.0071 (ppm)	3.95	0.0071 (ppm)	228.9579
10/31/2017 21:35:12	K1710862-002	Ba (230.424 nm)	0.0134 (ppm)	0.87	0.0134 (ppm)	452.9468
10/31/2017 21:35:12	K1710862-002	Be (313.107 nm)	0.0000 (ppm)	29.75	0.0000 (ppm)	-501.3500
10/31/2017 21:35:12	K1710862-002	Ca (227.547 nm)	2.1296 (ppm)	0.31	2.1296 (ppm)	124.3033
10/31/2017 21:35:12	K1710862-002	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	12.3154
10/31/2017 21:35:12	K1710862-002	Co (230.786 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-2.3052
10/31/2017 21:35:12	K1710862-002	Cr (267.716 nm)	0.0002 (ppm)	30.77	0.0002 (ppm)	9.9101
10/31/2017 21:35:12	K1710862-002	Cu (327.395 nm)	0.0029 (ppm)	2.24	0.0029 (ppm)	192.4227
10/31/2017 21:35:12	K1710862-002	Fe (234.350 nm)	0.8255 (ppm)	0.56	0.8255 (ppm)	9231.5978

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:35:12	K1710862-002	K (766.491 nm)	0.9487 (ppm)	0.71	0.9487 (ppm)	2853.7607
10/31/2017 21:35:12	K1710862-002	Mg (279.078 nm)	1.1062 (ppm)	0.65	1.1062 (ppm)	2133.9629
10/31/2017 21:35:12	K1710862-002	Mn (257.610 nm)	0.0342 (ppm)	19.87	0.0342 (ppm)	10719.7420
10/31/2017 21:35:12	K1710862-002	Mo (202.032 nm)	0.0003 (ppm)	56.85	0.0003 (ppm)	10.4335
10/31/2017 21:35:12	K1710862-002	Na (588.995 nm)	3.2302 (ppm)	0.84	3.2302 (ppm)	141434.3535
10/31/2017 21:35:12	K1710862-002	Ni (230.299 nm)	-0.0038 u (ppm)	8.54	-0.0038 (ppm)	-45.9347
10/31/2017 21:35:12	K1710862-002	Pb (220.353 nm)	0.0032 (ppm)	19.30	0.0032 (ppm)	11.8702
10/31/2017 21:35:12	K1710862-002	Sb (217.582 nm)	-0.0013 u (ppm)	98.54	-0.0013 (ppm)	-0.9882
10/31/2017 21:35:12	K1710862-002	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-0.3911
10/31/2017 21:35:12	K1710862-002	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.2573
10/31/2017 21:35:12	K1710862-002	Sr (216.596 nm)	0.0173 (ppm)	1.14	0.0173 (ppm)	245.1706
10/31/2017 21:35:12	K1710862-002	Ti (336.122 nm)	0.0012 (ppm)	3.92	0.0012 (ppm)	-223.4332
10/31/2017 21:35:12	K1710862-002	Tl (351.923 nm)	0.0041 (ppm)	50.57	0.0041 (ppm)	18.6006
10/31/2017 21:35:12	K1710862-002	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	109.0936
10/31/2017 21:35:12	K1710862-002	Y (360.074 nm)	1.01 (Ratio)	0.81	1.01 (Ratio)	861865.10
10/31/2017 21:35:12	K1710862-002	Y_R (360.074 nm)	1.01 (Ratio)	0.81	1.01 (Ratio)	862458.53
10/31/2017 21:35:12	K1710862-002	Zn (213.857 nm)	0.0029 (ppm)	2.50	0.0029 (ppm)	54.8491
10/31/2017 21:38:30	K1710862-003	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-106.8234
10/31/2017 21:38:30	K1710862-003	Al (394.401 nm)	0.0059 (ppm)	4.08	0.0059 (ppm)	200.7811
10/31/2017 21:38:30	K1710862-003	As (188.980 nm)	-0.0009 u (ppm)	87.03	-0.0009 (ppm)	-2.2602
10/31/2017 21:38:30	K1710862-003	B (249.772 nm)	0.0068 (ppm)	1.71	0.0068 (ppm)	221.9332
10/31/2017 21:38:30	K1710862-003	Ba (230.424 nm)	0.0136 (ppm)	2.31	0.0136 (ppm)	460.5482
10/31/2017 21:38:30	K1710862-003	Be (313.107 nm)	0.0000 (ppm)	39.29	0.0000 (ppm)	-511.7760
10/31/2017 21:38:30	K1710862-003	Ca (227.547 nm)	2.1350 (ppm)	3.71	2.1350 (ppm)	124.6021
10/31/2017 21:38:30	K1710862-003	Cd (214.439 nm)	-0.0002 u (ppm)	21.28	-0.0002 (ppm)	9.4165
10/31/2017 21:38:30	K1710862-003	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-0.8942
10/31/2017 21:38:30	K1710862-003	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.9591
10/31/2017 21:38:30	K1710862-003	Cu (327.395 nm)	0.0025 (ppm)	7.00	0.0025 (ppm)	168.0115
10/31/2017 21:38:30	K1710862-003	Fe (234.350 nm)	0.2087 (ppm)	0.41	0.2087 (ppm)	2343.3010
10/31/2017 21:38:30	K1710862-003	K (766.491 nm)	0.9610 (ppm)	0.87	0.9610 (ppm)	2890.8731
10/31/2017 21:38:30	K1710862-003	Mg (279.078 nm)	1.1219 (ppm)	0.67	1.1219 (ppm)	2164.1606
10/31/2017 21:38:30	K1710862-003	Mn (257.610 nm)	0.0329 (ppm)	20.75	0.0329 (ppm)	10322.0496
10/31/2017 21:38:30	K1710862-003	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	8.8161
10/31/2017 21:38:30	K1710862-003	Na (588.995 nm)	3.2279 (ppm)	0.77	3.2279 (ppm)	141329.4842
10/31/2017 21:38:30	K1710862-003	Ni (230.299 nm)	-0.0033 u (ppm)	12.66	-0.0033 (ppm)	-42.7261
10/31/2017 21:38:30	K1710862-003	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.8170
10/31/2017 21:38:30	K1710862-003	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.3390
10/31/2017 21:38:30	K1710862-003	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.0693
10/31/2017 21:38:30	K1710862-003	Sn (189.925 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	0.4845
10/31/2017 21:38:30	K1710862-003	Sr (216.596 nm)	0.0175 (ppm)	0.74	0.0175 (ppm)	247.5647
10/31/2017 21:38:30	K1710862-003	Ti (336.122 nm)	0.0007 (ppm)	4.44	0.0007 (ppm)	-335.2015
10/31/2017 21:38:30	K1710862-003	Tl (351.923 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	9.2514
10/31/2017 21:38:30	K1710862-003	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	108.7112
10/31/2017 21:38:30	K1710862-003	Y (360.074 nm)	1.01 (Ratio)	0.76	1.01 (Ratio)	862538.93
10/31/2017 21:38:30	K1710862-003	Y_R (360.074 nm)	1.01 (Ratio)	0.76	1.01 (Ratio)	863140.07
10/31/2017 21:38:30	K1710862-003	Zn (213.857 nm)	0.0040 (ppm)	2.09	0.0040 (ppm)	85.0868
10/31/2017 21:41:49	K1710862-004	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-102.8661
10/31/2017 21:41:49	K1710862-004	Al (394.401 nm)	0.0226 (ppm)	2.04	0.0226 (ppm)	415.0188
10/31/2017 21:41:49	K1710862-004	As (188.980 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.2811
10/31/2017 21:41:49	K1710862-004	B (249.772 nm)	0.0071 (ppm)	3.29	0.0071 (ppm)	229.5407
10/31/2017 21:41:49	K1710862-004	Ba (230.424 nm)	0.0144 (ppm)	1.19	0.0144 (ppm)	486.8285

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:41:49	K1710862-004	Be (313.107 nm)	0.0000 (ppm)	27.97	0.0000 (ppm)	-501.1075
10/31/2017 21:41:49	K1710862-004	Ca (227.547 nm)	2.1678 (ppm)	1.32	2.1678 (ppm)	126.4490
10/31/2017 21:41:49	K1710862-004	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.4515
10/31/2017 21:41:49	K1710862-004	Co (230.786 nm)	0.0001 (ppm)	48.10	0.0001 (ppm)	-2.3315
10/31/2017 21:41:49	K1710862-004	Cr (267.716 nm)	0.0002 (ppm)	12.29	0.0002 (ppm)	10.9822
10/31/2017 21:41:49	K1710862-004	Cu (327.395 nm)	0.0030 (ppm)	2.90	0.0030 (ppm)	197.4892
10/31/2017 21:41:49	K1710862-004	Fe (234.350 nm)	0.7478 (ppm)	0.34	0.7478 (ppm)	8363.9783
10/31/2017 21:41:49	K1710862-004	K (766.491 nm)	0.9705 (ppm)	0.58	0.9705 (ppm)	2919.4553
10/31/2017 21:41:49	K1710862-004	Mg (279.078 nm)	1.1285 (ppm)	0.21	1.1285 (ppm)	2177.0561
10/31/2017 21:41:49	K1710862-004	Mn (257.610 nm)	0.0342 (ppm)	20.76	0.0342 (ppm)	10732.1335
10/31/2017 21:41:49	K1710862-004	Mo (202.032 nm)	-0.0002 u (ppm)	71.03	-0.0002 (ppm)	5.1131
10/31/2017 21:41:49	K1710862-004	Na (588.995 nm)	3.2155 (ppm)	0.67	3.2155 (ppm)	140763.5110
10/31/2017 21:41:49	K1710862-004	Ni (230.299 nm)	-0.0033 u (ppm)	48.52	-0.0033 (ppm)	-42.9462
10/31/2017 21:41:49	K1710862-004	Pb (220.353 nm)	0.0023 (ppm)	52.10	0.0023 (ppm)	9.9321
10/31/2017 21:41:49	K1710862-004	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.2124
10/31/2017 21:41:49	K1710862-004	Se (196.026 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-0.7763
10/31/2017 21:41:49	K1710862-004	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.6081
10/31/2017 21:41:49	K1710862-004	Sr (216.596 nm)	0.0180 (ppm)	0.03	0.0180 (ppm)	255.0978
10/31/2017 21:41:49	K1710862-004	Ti (336.122 nm)	0.0012 (ppm)	2.90	0.0012 (ppm)	-223.7250
10/31/2017 21:41:49	K1710862-004	Tl (351.923 nm)	-0.0016 u (ppm)	82.24	-0.0016 (ppm)	2.9802
10/31/2017 21:41:49	K1710862-004	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	109.3804
10/31/2017 21:41:49	K1710862-004	Y (360.074 nm)	1.01 (Ratio)	0.71	1.01 (Ratio)	860212.98
10/31/2017 21:41:49	K1710862-004	Y_R (360.074 nm)	1.01 (Ratio)	0.71	1.01 (Ratio)	860822.97
10/31/2017 21:41:49	K1710862-004	Zn (213.857 nm)	0.0026 (ppm)	1.64	0.0026 (ppm)	46.6423
10/31/2017 21:45:08	K1710862-005	Ag (328.068 nm)	-0.0001 u (ppm)	57.11	-0.0001 (ppm)	-108.7390
10/31/2017 21:45:08	K1710862-005	Al (394.401 nm)	0.0290 (ppm)	2.79	0.0290 (ppm)	496.4020
10/31/2017 21:45:08	K1710862-005	As (188.980 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.9355
10/31/2017 21:45:08	K1710862-005	B (249.772 nm)	0.0066 (ppm)	0.93	0.0066 (ppm)	215.1468
10/31/2017 21:45:08	K1710862-005	Ba (230.424 nm)	0.0151 (ppm)	2.29	0.0151 (ppm)	508.2696
10/31/2017 21:45:08	K1710862-005	Be (313.107 nm)	0.0000 (ppm)	73.92	0.0000 (ppm)	-504.6277
10/31/2017 21:45:08	K1710862-005	Ca (227.547 nm)	2.2056 (ppm)	2.96	2.2056 (ppm)	128.5789
10/31/2017 21:45:08	K1710862-005	Cd (214.439 nm)	-0.0002 u (ppm)	18.30	-0.0002 (ppm)	10.0780
10/31/2017 21:45:08	K1710862-005	Co (230.786 nm)	0.0004 (ppm)	70.94	0.0004 (ppm)	0.3125
10/31/2017 21:45:08	K1710862-005	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	4.1818
10/31/2017 21:45:08	K1710862-005	Cu (327.395 nm)	0.0028 (ppm)	0.77	0.0028 (ppm)	185.6001
10/31/2017 21:45:08	K1710862-005	Fe (234.350 nm)	0.8293 (ppm)	0.31	0.8293 (ppm)	9275.0279
10/31/2017 21:45:08	K1710862-005	K (766.491 nm)	0.9911 (ppm)	1.61	0.9911 (ppm)	2981.6894
10/31/2017 21:45:08	K1710862-005	Mg (279.078 nm)	1.1582 (ppm)	0.63	1.1582 (ppm)	2234.2812
10/31/2017 21:45:08	K1710862-005	Mn (257.610 nm)	0.0339 (ppm)	20.22	0.0339 (ppm)	10636.6190
10/31/2017 21:45:08	K1710862-005	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	6.6922
10/31/2017 21:45:08	K1710862-005	Na (588.995 nm)	3.2210 (ppm)	0.76	3.2210 (ppm)	141014.6037
10/31/2017 21:45:08	K1710862-005	Ni (230.299 nm)	-0.0035 u (ppm)	14.84	-0.0035 (ppm)	-44.2682
10/31/2017 21:45:08	K1710862-005	Pb (220.353 nm)	0.0029 (ppm)	14.16	0.0029 (ppm)	11.1562
10/31/2017 21:45:08	K1710862-005	Sb (217.582 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-0.1364
10/31/2017 21:45:08	K1710862-005	Se (196.026 nm)	0.0021 (ppm)	> 100.00	0.0021 (ppm)	2.5502
10/31/2017 21:45:08	K1710862-005	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.4504
10/31/2017 21:45:08	K1710862-005	Sr (216.596 nm)	0.0182 (ppm)	0.49	0.0182 (ppm)	258.3763
10/31/2017 21:45:08	K1710862-005	Ti (336.122 nm)	0.0014 (ppm)	3.74	0.0014 (ppm)	-198.0194
10/31/2017 21:45:08	K1710862-005	Tl (351.923 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	9.3333
10/31/2017 21:45:08	K1710862-005	V (292.401 nm)	0.0002 (ppm)	61.92	0.0002 (ppm)	115.7538
10/31/2017 21:45:08	K1710862-005	Y (360.074 nm)	1.01 (Ratio)	0.81	1.01 (Ratio)	861223.86

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:45:08	K1710862-005	Y_R (360.074 nm)	1.01 (Ratio)	0.81	1.01 (Ratio)	861788.68
10/31/2017 21:45:08	K1710862-005	Zn (213.857 nm)	0.0022 (ppm)	3.44	0.0022 (ppm)	34.4201
10/31/2017 21:48:27	K1710862-006	Ag (328.068 nm)	-0.0001 u (ppm)	87.77	-0.0001 (ppm)	-109.6007
10/31/2017 21:48:27	K1710862-006	Al (394.401 nm)	0.0227 (ppm)	2.85	0.0227 (ppm)	416.4246
10/31/2017 21:48:27	K1710862-006	As (188.980 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.3210
10/31/2017 21:48:27	K1710862-006	B (249.772 nm)	0.0077 (ppm)	1.93	0.0077 (ppm)	245.9600
10/31/2017 21:48:27	K1710862-006	Ba (230.424 nm)	0.0168 (ppm)	0.67	0.0168 (ppm)	566.5847
10/31/2017 21:48:27	K1710862-006	Be (313.107 nm)	0.0000 (ppm)	6.80	0.0000 (ppm)	-476.9087
10/31/2017 21:48:27	K1710862-006	Ca (227.547 nm)	4.0862 (ppm)	0.37	4.0862 (ppm)	234.4512
10/31/2017 21:48:27	K1710862-006	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.3688
10/31/2017 21:48:27	K1710862-006	Co (230.786 nm)	0.0018 (ppm)	18.17	0.0018 (ppm)	14.4612
10/31/2017 21:48:27	K1710862-006	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.3898
10/31/2017 21:48:27	K1710862-006	Cu (327.395 nm)	0.0010 (ppm)	19.27	0.0010 (ppm)	75.2284
10/31/2017 21:48:27	K1710862-006	Fe (234.350 nm)	1.1957 (ppm)	0.49	1.1957 (ppm)	13366.4642
10/31/2017 21:48:27	K1710862-006	K (766.491 nm)	1.3165 (ppm)	0.23	1.3165 (ppm)	3963.3364
10/31/2017 21:48:27	K1710862-006	Mg (279.078 nm)	1.9846 (ppm)	0.56	1.9846 (ppm)	3829.0074
10/31/2017 21:48:27	K1710862-006	Mn (257.610 nm)	0.1827 (ppm)	3.36	0.1827 (ppm)	57266.5525
10/31/2017 21:48:27	K1710862-006	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	4.9084
10/31/2017 21:48:27	K1710862-006	Na (588.995 nm)	3.5746 (ppm)	0.61	3.5746 (ppm)	157095.8353
10/31/2017 21:48:27	K1710862-006	Ni (230.299 nm)	-0.0028 u (ppm)	18.80	-0.0028 (ppm)	-39.1908
10/31/2017 21:48:27	K1710862-006	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	4.5460
10/31/2017 21:48:27	K1710862-006	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.9825
10/31/2017 21:48:27	K1710862-006	Se (196.026 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	-0.7267
10/31/2017 21:48:27	K1710862-006	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.7934
10/31/2017 21:48:27	K1710862-006	Sr (216.596 nm)	0.0268 (ppm)	0.99	0.0268 (ppm)	380.3729
10/31/2017 21:48:27	K1710862-006	Ti (336.122 nm)	0.0008 (ppm)	8.52	0.0008 (ppm)	-321.1750
10/31/2017 21:48:27	K1710862-006	Tl (351.923 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	8.9430
10/31/2017 21:48:27	K1710862-006	V (292.401 nm)	0.0001 (ppm)	81.58	0.0001 (ppm)	113.6201
10/31/2017 21:48:27	K1710862-006	Y (360.074 nm)	1.01 (Ratio)	0.67	1.01 (Ratio)	863244.98
10/31/2017 21:48:27	K1710862-006	Y_R (360.074 nm)	1.01 (Ratio)	0.68	1.01 (Ratio)	863818.51
10/31/2017 21:48:27	K1710862-006	Zn (213.857 nm)	0.0033 (ppm)	0.43	0.0033 (ppm)	66.4297
10/31/2017 21:51:46	K1710862-006S	Ag (328.068 nm)	0.0490 (ppm)	0.56	0.0490 (ppm)	3399.4732
10/31/2017 21:51:46	K1710862-006S	Al (394.401 nm)	1.8614 (ppm)	0.61	1.8614 (ppm)	23947.4799
10/31/2017 21:51:46	K1710862-006S	As (188.980 nm)	0.0389 (ppm)	3.84	0.0389 (ppm)	33.3155
10/31/2017 21:51:46	K1710862-006S	B (249.772 nm)	0.9730 (ppm)	0.36	0.9730 (ppm)	26973.2430
10/31/2017 21:51:46	K1710862-006S	Ba (230.424 nm)	2.0975 (ppm)	0.51	2.0975 (ppm)	70518.3974
10/31/2017 21:51:46	K1710862-006S	Be (313.107 nm)	0.0504 (ppm)	0.49	0.0504 (ppm)	73906.8092
10/31/2017 21:51:46	K1710862-006S	Ca (227.547 nm)	5.9404 (ppm)	0.93	5.9404 (ppm)	338.8320
10/31/2017 21:51:46	K1710862-006S	Cd (214.439 nm)	0.0516 (ppm)	0.73	0.0516 (ppm)	1129.6781
10/31/2017 21:51:46	K1710862-006S	Co (230.786 nm)	0.5161 (ppm)	0.44	0.5161 (ppm)	5091.4006
10/31/2017 21:51:46	K1710862-006S	Cr (267.716 nm)	0.1998 (ppm)	0.43	0.1998 (ppm)	9890.3463
10/31/2017 21:51:46	K1710862-006S	Cu (327.395 nm)	0.2413 (ppm)	0.72	0.2413 (ppm)	14996.0152
10/31/2017 21:51:46	K1710862-006S	Fe (234.350 nm)	2.1383 (ppm)	0.51	2.1383 (ppm)	23894.6654
10/31/2017 21:51:46	K1710862-006S	K (766.491 nm)	20.2878 (ppm)	0.68	20.2878 (ppm)	61205.1852
10/31/2017 21:51:46	K1710862-006S	Mg (279.078 nm)	3.9263 (ppm)	0.32	3.9263 (ppm)	7575.8654
10/31/2017 21:51:46	K1710862-006S	Mn (257.610 nm)	0.6668 (ppm)	0.42	0.6668 (ppm)	209009.7493
10/31/2017 21:51:46	K1710862-006S	Mo (202.032 nm)	0.4756 (ppm)	0.35	0.4756 (ppm)	4855.3745
10/31/2017 21:51:46	K1710862-006S	Na (588.995 nm)	22.6836 (ppm)	0.75	22.6836 (ppm)	1026072.3049
10/31/2017 21:51:46	K1710862-006S	Ni (230.299 nm)	0.5119 (ppm)	0.37	0.5119 (ppm)	3428.0156
10/31/2017 21:51:46	K1710862-006S	Pb (220.353 nm)	0.5115 (ppm)	0.29	0.5115 (ppm)	1098.0052
10/31/2017 21:51:46	K1710862-006S	Sb (217.582 nm)	0.4995 (ppm)	0.42	0.4995 (ppm)	683.9279

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:51:46	K1710862-006S	Se (196.026 nm)	1.0547 (ppm)	0.57	1.0547 (ppm)	904.0225
10/31/2017 21:51:46	K1710862-006S	Sn (189.925 nm)	5.1330 (ppm)	0.31	5.1330 (ppm)	6215.6998
10/31/2017 21:51:46	K1710862-006S	Sr (216.596 nm)	2.0842 (ppm)	0.64	2.0842 (ppm)	29592.6135
10/31/2017 21:51:46	K1710862-006S	Ti (336.122 nm)	0.4878 (ppm)	0.47	0.4878 (ppm)	101580.7866
10/31/2017 21:51:46	K1710862-006S	Tl (351.923 nm)	1.8566 (ppm)	0.53	1.8566 (ppm)	5106.9503
10/31/2017 21:51:46	K1710862-006S	V (292.401 nm)	0.4982 (ppm)	0.55	0.4982 (ppm)	17718.5814
10/31/2017 21:51:46	K1710862-006S	Y (360.074 nm)	0.99 (Ratio)	0.81	0.99 (Ratio)	841169.87
10/31/2017 21:51:46	K1710862-006S	Y_R (360.074 nm)	0.99 (Ratio)	0.81	0.99 (Ratio)	841712.89
10/31/2017 21:51:46	K1710862-006S	Zn (213.857 nm)	0.5141 (ppm)	0.92	0.5141 (ppm)	14356.4427
10/31/2017 21:55:05	K1710862-006SD	Ag (328.068 nm)	0.0491 (ppm)	0.44	0.0491 (ppm)	3407.0895
10/31/2017 21:55:05	K1710862-006SD	Al (394.401 nm)	1.8652 (ppm)	0.48	1.8652 (ppm)	23995.5425
10/31/2017 21:55:05	K1710862-006SD	As (188.980 nm)	0.0422 (ppm)	4.67	0.0422 (ppm)	36.2299
10/31/2017 21:55:05	K1710862-006SD	B (249.772 nm)	0.9771 (ppm)	0.34	0.9771 (ppm)	27087.2120
10/31/2017 21:55:05	K1710862-006SD	Ba (230.424 nm)	2.1132 (ppm)	0.38	2.1132 (ppm)	71044.7131
10/31/2017 21:55:05	K1710862-006SD	Be (313.107 nm)	0.0506 (ppm)	0.41	0.0506 (ppm)	74259.7555
10/31/2017 21:55:05	K1710862-006SD	Ca (227.547 nm)	6.0030 (ppm)	1.02	6.0030 (ppm)	342.3539
10/31/2017 21:55:05	K1710862-006SD	Cd (214.439 nm)	0.0519 (ppm)	0.20	0.0519 (ppm)	1137.1276
10/31/2017 21:55:05	K1710862-006SD	Co (230.786 nm)	0.5176 (ppm)	0.25	0.5176 (ppm)	5106.3405
10/31/2017 21:55:05	K1710862-006SD	Cr (267.716 nm)	0.2004 (ppm)	0.22	0.2004 (ppm)	9920.1001
10/31/2017 21:55:05	K1710862-006SD	Cu (327.395 nm)	0.2414 (ppm)	0.65	0.2414 (ppm)	14998.3955
10/31/2017 21:55:05	K1710862-006SD	Fe (234.350 nm)	2.1474 (ppm)	0.23	2.1474 (ppm)	23997.1482
10/31/2017 21:55:05	K1710862-006SD	K (766.491 nm)	20.3094 (ppm)	0.64	20.3094 (ppm)	61270.5379
10/31/2017 21:55:05	K1710862-006SD	Mg (279.078 nm)	3.9507 (ppm)	0.34	3.9507 (ppm)	7623.0124
10/31/2017 21:55:05	K1710862-006SD	Mn (257.610 nm)	0.6681 (ppm)	0.25	0.6681 (ppm)	209415.1117
10/31/2017 21:55:05	K1710862-006SD	Mo (202.032 nm)	0.4801 (ppm)	0.21	0.4801 (ppm)	4901.4356
10/31/2017 21:55:05	K1710862-006SD	Na (588.995 nm)	22.6891 (ppm)	0.64	22.6891 (ppm)	1026318.6830
10/31/2017 21:55:05	K1710862-006SD	Ni (230.299 nm)	0.5134 (ppm)	0.21	0.5134 (ppm)	3437.8968
10/31/2017 21:55:05	K1710862-006SD	Pb (220.353 nm)	0.5147 (ppm)	0.38	0.5147 (ppm)	1104.7208
10/31/2017 21:55:05	K1710862-006SD	Sb (217.582 nm)	0.5024 (ppm)	0.67	0.5024 (ppm)	687.9163
10/31/2017 21:55:05	K1710862-006SD	Se (196.026 nm)	1.0624 (ppm)	0.87	1.0624 (ppm)	910.6062
10/31/2017 21:55:05	K1710862-006SD	Sn (189.925 nm)	5.1683 (ppm)	0.21	5.1683 (ppm)	6258.4584
10/31/2017 21:55:05	K1710862-006SD	Sr (216.596 nm)	2.0970 (ppm)	0.38	2.0970 (ppm)	29773.5805
10/31/2017 21:55:05	K1710862-006SD	Ti (336.122 nm)	0.4897 (ppm)	0.36	0.4897 (ppm)	101980.2159
10/31/2017 21:55:05	K1710862-006SD	Tl (351.923 nm)	1.8648 (ppm)	0.39	1.8648 (ppm)	5129.4207
10/31/2017 21:55:05	K1710862-006SD	V (292.401 nm)	0.4999 (ppm)	0.41	0.4999 (ppm)	17778.2974
10/31/2017 21:55:05	K1710862-006SD	Y (360.074 nm)	0.98 (Ratio)	0.83	0.98 (Ratio)	838904.00
10/31/2017 21:55:05	K1710862-006SD	Y_R (360.074 nm)	0.98 (Ratio)	0.83	0.98 (Ratio)	839456.50
10/31/2017 21:55:05	K1710862-006SD	Zn (213.857 nm)	0.5167 (ppm)	0.51	0.5167 (ppm)	14429.6648
10/31/2017 21:58:24	Continuing Calibration Verification1	Ag (328.068 nm)	0.4807 (ppm)	0.24	0.4807 (ppm)	34241.9039
10/31/2017 21:58:24	Continuing Calibration Verification1	Al (394.401 nm)	9.2297 (ppm)	0.30	9.2297 (ppm)	118244.2056
10/31/2017 21:58:24	Continuing Calibration Verification1	As (188.980 nm)	0.9508 (ppm)	0.19	0.9508 (ppm)	848.4543
10/31/2017 21:58:24	Continuing Calibration Verification1	B (249.772 nm)	2.3794 (ppm)	0.20	2.3794 (ppm)	65911.5590
10/31/2017 21:58:24	Continuing Calibration Verification1	Ba (230.424 nm)	10.1517 (ppm)	0.25	10.1517 (ppm)	341293.5892
10/31/2017 21:58:24	Continuing Calibration Verification1	Be (313.107 nm)	0.2489 (ppm)	0.35	0.2489 (ppm)	367109.3370
10/31/2017 21:58:24	Continuing Calibration Verification1	Ca (227.547 nm)	23.5344 (ppm)	0.32	23.5344 (ppm)	1329.2921
10/31/2017 21:58:24	Continuing Calibration Verification1	Cd (214.439 nm)	0.4965 (ppm)	0.19	0.4965 (ppm)	10762.5456
10/31/2017 21:58:24	Continuing Calibration Verification1	Co (230.786 nm)	2.5563 (ppm)	0.25	2.5563 (ppm)	25233.9091
10/31/2017 21:58:24	Continuing Calibration Verification1	Cr (267.716 nm)	0.4987 (ppm)	0.31	0.4987 (ppm)	24690.4572
10/31/2017 21:58:24	Continuing Calibration Verification1	Cu (327.395 nm)	1.1678 (ppm)	0.29	1.1678 (ppm)	72514.8218
10/31/2017 21:58:24	Continuing Calibration Verification1	Fe (234.350 nm)	4.7721 (ppm)	0.25	4.7721 (ppm)	53312.1500
10/31/2017 21:58:24	Continuing Calibration Verification1	K (766.491 nm)	23.8871 (ppm)	0.34	23.8871 (ppm)	72065.4900

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 21:58:24	Continuing Calibration Verification1	Mg (279.078 nm)	24.7935 (ppm)	0.25	24.7935 (ppm)	47842.9666
10/31/2017 21:58:24	Continuing Calibration Verification1	Mn (257.610 nm)	0.7474 (ppm)	0.21	0.7474 (ppm)	234267.5583
10/31/2017 21:58:24	Continuing Calibration Verification1	Mo (202.032 nm)	2.3688 (ppm)	0.25	2.3688 (ppm)	24153.6828
10/31/2017 21:58:24	Continuing Calibration Verification1	Na (588.995 nm)	24.0113 (ppm)	0.65	24.0113 (ppm)	1086446.4926
10/31/2017 21:58:24	Continuing Calibration Verification1	Ni (230.299 nm)	2.0099 (ppm)	0.19	2.0099 (ppm)	13519.5890
10/31/2017 21:58:24	Continuing Calibration Verification1	Pb (220.353 nm)	0.4949 (ppm)	0.65	0.4949 (ppm)	1062.3850
10/31/2017 21:58:24	Continuing Calibration Verification1	Sb (217.582 nm)	4.7997 (ppm)	0.44	4.7997 (ppm)	6564.6642
10/31/2017 21:58:24	Continuing Calibration Verification1	Se (196.026 nm)	0.4849 (ppm)	0.47	0.4849 (ppm)	416.0821
10/31/2017 21:58:24	Continuing Calibration Verification1	Sn (189.925 nm)	5.0604 (ppm)	0.33	5.0604 (ppm)	6127.8369
10/31/2017 21:58:24	Continuing Calibration Verification1	Sr (216.596 nm)	2.5177 (ppm)	0.48	2.5177 (ppm)	35747.5625
10/31/2017 21:58:24	Continuing Calibration Verification1	Ti (336.122 nm)	2.4459 (ppm)	0.32	2.4459 (ppm)	511294.6911
10/31/2017 21:58:24	Continuing Calibration Verification1	Tl (351.923 nm)	0.9628 (ppm)	0.12	0.9628 (ppm)	2651.9283
10/31/2017 21:58:24	Continuing Calibration Verification1	V (292.401 nm)	2.4715 (ppm)	0.23	2.4715 (ppm)	87467.0754
10/31/2017 21:58:24	Continuing Calibration Verification1	Y (360.074 nm)	0.97 (Ratio)	0.68	0.97 (Ratio)	826201.27
10/31/2017 21:58:24	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97 (Ratio)	0.68	0.97 (Ratio)	826727.51
10/31/2017 21:58:24	Continuing Calibration Verification1	Zn (213.857 nm)	0.9937 (ppm)	0.32	0.9937 (ppm)	27771.7221
10/31/2017 22:01:43	Continuing Calibration Blank1	Ag (328.068 nm)	0.0005 (ppm)	53.61	0.0005 (ppm)	-69.2450
10/31/2017 22:01:43	Continuing Calibration Blank1	Al (394.401 nm)	0.0104 (ppm)	47.22	0.0104 (ppm)	258.4346
10/31/2017 22:01:43	Continuing Calibration Blank1	As (188.980 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.2788
10/31/2017 22:01:43	Continuing Calibration Blank1	B (249.772 nm)	0.0066 (ppm)	29.98	0.0066 (ppm)	216.2370
10/31/2017 22:01:43	Continuing Calibration Blank1	Ba (230.424 nm)	0.0149 (ppm)	43.39	0.0149 (ppm)	503.7450
10/31/2017 22:01:43	Continuing Calibration Blank1	Be (313.107 nm)	0.0003 (ppm)	39.30	0.0003 (ppm)	-42.3478
10/31/2017 22:01:43	Continuing Calibration Blank1	Ca (227.547 nm)	0.0355 (ppm)	> 100.00	0.0355 (ppm)	6.4154
10/31/2017 22:01:43	Continuing Calibration Blank1	Cd (214.439 nm)	0.0007 (ppm)	49.62	0.0007 (ppm)	29.1045
10/31/2017 22:01:43	Continuing Calibration Blank1	Co (230.786 nm)	0.0039 Z (ppm)	36.21	0.0039 (ppm)	34.5229 Z
10/31/2017 22:01:43	Continuing Calibration Blank1	Cr (267.716 nm)	0.0006 (ppm)	34.31	0.0006 (ppm)	30.1491
10/31/2017 22:01:43	Continuing Calibration Blank1	Cu (327.395 nm)	0.0017 (ppm)	31.74	0.0017 (ppm)	118.5179
10/31/2017 22:01:43	Continuing Calibration Blank1	Fe (234.350 nm)	0.0068 (ppm)	42.44	0.0068 (ppm)	88.1733
10/31/2017 22:01:43	Continuing Calibration Blank1	K (766.491 nm)	0.0750 (ppm)	24.91	0.0750 (ppm)	217.3751
10/31/2017 22:01:43	Continuing Calibration Blank1	Mg (279.078 nm)	0.0307 (ppm)	43.98	0.0307 (ppm)	58.6663
10/31/2017 22:01:43	Continuing Calibration Blank1	Mn (257.610 nm)	0.0062 (ppm)	17.56	0.0062 (ppm)	1953.1371
10/31/2017 22:01:43	Continuing Calibration Blank1	Mo (202.032 nm)	0.0058 (ppm)	17.25	0.0058 (ppm)	66.0724
10/31/2017 22:01:43	Continuing Calibration Blank1	Na (588.995 nm)	0.0191 (ppm)	81.44	0.0191 (ppm)	-4590.1787
10/31/2017 22:01:43	Continuing Calibration Blank1	Ni (230.299 nm)	0.0025 (ppm)	37.23	0.0025 (ppm)	-3.8442
10/31/2017 22:01:43	Continuing Calibration Blank1	Pb (220.353 nm)	0.0010 (ppm)	77.20	0.0010 (ppm)	7.2329
10/31/2017 22:01:43	Continuing Calibration Blank1	Sb (217.582 nm)	0.0064 (ppm)	32.87	0.0064 (ppm)	9.6068
10/31/2017 22:01:43	Continuing Calibration Blank1	Se (196.026 nm)	0.0037 (ppm)	55.53	0.0037 (ppm)	3.9119
10/31/2017 22:01:43	Continuing Calibration Blank1	Sn (189.925 nm)	0.0060 (ppm)	70.95	0.0060 (ppm)	7.2421
10/31/2017 22:01:43	Continuing Calibration Blank1	Sr (216.596 nm)	0.0033 (ppm)	38.57	0.0033 (ppm)	46.2805
10/31/2017 22:01:43	Continuing Calibration Blank1	Ti (336.122 nm)	0.0041 (ppm)	33.75	0.0041 (ppm)	376.7393
10/31/2017 22:01:43	Continuing Calibration Blank1	Tl (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	8.2309
10/31/2017 22:01:43	Continuing Calibration Blank1	V (292.401 nm)	0.0033 Z (ppm)	40.43	0.0033 (ppm)	226.9474 Z
10/31/2017 22:01:43	Continuing Calibration Blank1	Y (360.074 nm)	1.01 (Ratio)	0.68	1.01 (Ratio)	860462.61
10/31/2017 22:01:43	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01 (Ratio)	0.68	1.01 (Ratio)	861087.22
10/31/2017 22:01:43	Continuing Calibration Blank1	Zn (213.857 nm)	0.0013 (ppm)	38.48	0.0013 (ppm)	10.6710
10/31/2017 22:05:03	K1710862-006A	Ag (328.068 nm)	0.0466 (ppm)	0.53	0.0466 (ppm)	3227.9380
10/31/2017 22:05:03	K1710862-006A	Al (394.401 nm)	1.7816 (ppm)	0.60	1.7816 (ppm)	22926.5396
10/31/2017 22:05:03	K1710862-006A	As (188.980 nm)	0.0367 (ppm)	10.40	0.0367 (ppm)	31.3193
10/31/2017 22:05:03	K1710862-006A	B (249.772 nm)	1.0534 (ppm)	0.43	1.0534 (ppm)	29199.1912
10/31/2017 22:05:03	K1710862-006A	Ba (230.424 nm)	1.9913 (ppm)	0.41	1.9913 (ppm)	66946.7119
10/31/2017 22:05:03	K1710862-006A	Be (313.107 nm)	0.0479 (ppm)	0.51	0.0479 (ppm)	70239.6048

0.050U

0.050U

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:05:03	K1710862-006A	Ca (227.547 nm)	5.8673 (ppm)	1.14	5.8673 (ppm)	334.7157
10/31/2017 22:05:03	K1710862-006A	Cd (214.439 nm)	0.0488 (ppm)	0.32	0.0488 (ppm)	1069.1708
10/31/2017 22:05:03	K1710862-006A	Co (230.786 nm)	0.4906 (ppm)	0.29	0.4906 (ppm)	4839.9294
10/31/2017 22:05:03	K1710862-006A	Cr (267.716 nm)	0.1894 (ppm)	0.51	0.1894 (ppm)	9377.7428
10/31/2017 22:05:03	K1710862-006A	Cu (327.395 nm)	0.2286 (ppm)	0.92	0.2286 (ppm)	14205.7047
10/31/2017 22:05:03	K1710862-006A	Fe (234.350 nm)	2.0799 (ppm)	0.52	2.0799 (ppm)	23242.8755
10/31/2017 22:05:03	K1710862-006A	K (766.491 nm)	19.2922 (ppm)	0.53	19.2922 (ppm)	58201.2806
10/31/2017 22:05:03	K1710862-006A	Mg (279.078 nm)	3.8111 (ppm)	0.49	3.8111 (ppm)	7353.5858
10/31/2017 22:05:03	K1710862-006A	Mn (257.610 nm)	0.6646 (ppm)	1.33	0.6646 (ppm)	208319.3623
10/31/2017 22:05:03	K1710862-006A	Mo (202.032 nm)	0.4569 (ppm)	0.34	0.4569 (ppm)	4664.0785
10/31/2017 22:05:03	K1710862-006A	Na (588.995 nm)	21.7978 (ppm)	0.78	21.7978 (ppm)	985789.9296
10/31/2017 22:05:03	K1710862-006A	Ni (230.299 nm)	0.4850 (ppm)	0.36	0.4850 (ppm)	3246.7986
10/31/2017 22:05:03	K1710862-006A	Pb (220.353 nm)	0.4851 (ppm)	0.60	0.4851 (ppm)	1041.5730
10/31/2017 22:05:03	K1710862-006A	Sb (217.582 nm)	0.4774 (ppm)	0.59	0.4774 (ppm)	653.6871
10/31/2017 22:05:03	K1710862-006A	Se (196.026 nm)	1.1006 o (ppm)	0.36	1.1006 (ppm)	943.3492
10/31/2017 22:05:03	K1710862-006A	Sn (189.925 nm)	4.9188 (ppm)	0.64	4.9188 (ppm)	5956.3724
10/31/2017 22:05:03	K1710862-006A	Sr (216.596 nm)	2.0706 (ppm)	0.69	2.0706 (ppm)	29398.4087
10/31/2017 22:05:03	K1710862-006A	Ti (336.122 nm)	0.4658 (ppm)	0.46	0.4658 (ppm)	96987.7644
10/31/2017 22:05:03	K1710862-006A	Tl (351.923 nm)	1.7592 (ppm)	0.49	1.7592 (ppm)	4839.2475
10/31/2017 22:05:03	K1710862-006A	V (292.401 nm)	0.4736 (ppm)	0.53	0.4736 (ppm)	16848.7975
10/31/2017 22:05:03	K1710862-006A	Y (360.074 nm)	0.99 (Ratio)	0.77	0.99 (Ratio)	847633.44
10/31/2017 22:05:03	K1710862-006A	Y_R (360.074 nm)	0.99 (Ratio)	0.77	0.99 (Ratio)	848239.69
10/31/2017 22:05:03	K1710862-006A	Zn (213.857 nm)	0.4871 (ppm)	1.01	0.4871 (ppm)	13599.3273
10/31/2017 22:08:22	K1710862-006L	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-102.1971
10/31/2017 22:08:22	K1710862-006L	Al (394.401 nm)	0.0071 (ppm)	27.65	0.0071 (ppm)	216.1185
10/31/2017 22:08:22	K1710862-006L	As (188.980 nm)	-0.0004 u (ppm)	91.85	-0.0004 (ppm)	-1.7901
10/31/2017 22:08:22	K1710862-006L	B (249.772 nm)	0.0043 (ppm)	21.83	0.0043 (ppm)	153.7762
10/31/2017 22:08:22	K1710862-006L	Ba (230.424 nm)	0.0067 (ppm)	39.81	0.0067 (ppm)	226.7622
10/31/2017 22:08:22	K1710862-006L	Be (313.107 nm)	0.0001 (ppm)	62.50	0.0001 (ppm)	-398.1580
10/31/2017 22:08:22	K1710862-006L	Ca (227.547 nm)	0.8124 (ppm)	4.04	0.8124 (ppm)	50.1507
10/31/2017 22:08:22	K1710862-006L	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.0274
10/31/2017 22:08:22	K1710862-006L	Co (230.786 nm)	0.0012 (ppm)	49.41	0.0012 (ppm)	8.2668
10/31/2017 22:08:22	K1710862-006L	Cr (267.716 nm)	0.0003 (ppm)	30.57	0.0003 (ppm)	11.6339
10/31/2017 22:08:22	K1710862-006L	Cu (327.395 nm)	0.0006 (ppm)	49.74	0.0006 (ppm)	49.5182
10/31/2017 22:08:22	K1710862-006L	Fe (234.350 nm)	0.2404 (ppm)	0.71	0.2404 (ppm)	2696.7566
10/31/2017 22:08:22	K1710862-006L	K (766.491 nm)	0.2957 (ppm)	5.38	0.2957 (ppm)	883.5265
10/31/2017 22:08:22	K1710862-006L	Mg (279.078 nm)	0.3915 (ppm)	1.22	0.3915 (ppm)	754.8068
10/31/2017 22:08:22	K1710862-006L	Mn (257.610 nm)	0.0389 (ppm)	3.32	0.0389 (ppm)	12199.1790
10/31/2017 22:08:22	K1710862-006L	Mo (202.032 nm)	0.0018 (ppm)	28.71	0.0018 (ppm)	25.6861
10/31/2017 22:08:22	K1710862-006L	Na (588.995 nm)	0.7094 (ppm)	1.74	0.7094 (ppm)	26799.0076
10/31/2017 22:08:22	K1710862-006L	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-19.6406
10/31/2017 22:08:22	K1710862-006L	Pb (220.353 nm)	0.0006 (ppm)	85.51	0.0006 (ppm)	6.2349
10/31/2017 22:08:22	K1710862-006L	Sb (217.582 nm)	0.0012 (ppm)	37.64	0.0012 (ppm)	2.4609
10/31/2017 22:08:22	K1710862-006L	Se (196.026 nm)	0.0032 u (ppm)	> 100.00	0.0032 (ppm)	3.4951
10/31/2017 22:08:22	K1710862-006L	Sn (189.925 nm)	0.0028 (ppm)	52.44	0.0028 (ppm)	3.2624
10/31/2017 22:08:22	K1710862-006L	Sr (216.596 nm)	0.0064 (ppm)	12.17	0.0064 (ppm)	90.6056
10/31/2017 22:08:22	K1710862-006L	Ti (336.122 nm)	0.0013 (ppm)	34.74	0.0013 (ppm)	-212.3016
10/31/2017 22:08:22	K1710862-006L	Tl (351.923 nm)	0.0018 (ppm)	57.29	0.0018 (ppm)	12.1898
10/31/2017 22:08:22	K1710862-006L	V (292.401 nm)	0.0008 (ppm)	67.67	0.0008 (ppm)	136.5527
10/31/2017 22:08:22	K1710862-006L	Y (360.074 nm)	1.02 (Ratio)	0.74	1.02 (Ratio)	868404.38
10/31/2017 22:08:22	K1710862-006L	Y_R (360.074 nm)	1.02 (Ratio)	0.75	1.02 (Ratio)	869022.89

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:08:22	K1710862-006L	Zn (213.857 nm)	0.0026 (ppm)	12.58	0.0026 (ppm)	46.5890
10/31/2017 22:11:40	K1710862-007	Ag (328.068 nm)	0.0001 (ppm)	82.05	0.0001 (ppm)	-99.6710
10/31/2017 22:11:40	K1710862-007	Al (394.401 nm)	0.0018 (ppm)	34.27	0.0018 (ppm)	148.4286
10/31/2017 22:11:40	K1710862-007	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.2142
10/31/2017 22:11:40	K1710862-007	B (249.772 nm)	0.0012 (ppm)	9.77	0.0012 (ppm)	66.7262
10/31/2017 22:11:40	K1710862-007	Ba (230.424 nm)	0.0001 (ppm)	11.02	0.0001 (ppm)	5.7624
10/31/2017 22:11:40	K1710862-007	Be (313.107 nm)	0.0000 (ppm)	27.18	0.0000 (ppm)	-510.6663
10/31/2017 22:11:40	K1710862-007	Ca (227.547 nm)	0.0146 u (ppm)	> 100.00	0.0146 (ppm)	5.2365
10/31/2017 22:11:40	K1710862-007	Cd (214.439 nm)	-0.0001 u (ppm)	83.98	-0.0001 (ppm)	11.7517
10/31/2017 22:11:40	K1710862-007	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.2575
10/31/2017 22:11:40	K1710862-007	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-1.8309
10/31/2017 22:11:40	K1710862-007	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	20.5459
10/31/2017 22:11:40	K1710862-007	Fe (234.350 nm)	0.0023 (ppm)	7.70	0.0023 (ppm)	37.6005
10/31/2017 22:11:40	K1710862-007	K (766.491 nm)	0.0299 (ppm)	2.03	0.0299 (ppm)	81.3992
10/31/2017 22:11:40	K1710862-007	Mg (279.078 nm)	0.0030 (ppm)	60.69	0.0030 (ppm)	5.1452
10/31/2017 22:11:40	K1710862-007	Mn (257.610 nm)	0.0122 (ppm)	35.25	0.0122 (ppm)	3817.8952
10/31/2017 22:11:40	K1710862-007	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	9.0059
10/31/2017 22:11:40	K1710862-007	Na (588.995 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-5479.4350
10/31/2017 22:11:40	K1710862-007	Ni (230.299 nm)	0.0007 (ppm)	47.13	0.0007 (ppm)	-15.7731
10/31/2017 22:11:40	K1710862-007	Pb (220.353 nm)	-0.0010 u (ppm)	88.66	-0.0010 (ppm)	2.8719
10/31/2017 22:11:40	K1710862-007	Sb (217.582 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-0.2345
10/31/2017 22:11:40	K1710862-007	Se (196.026 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	1.8518
10/31/2017 22:11:40	K1710862-007	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	1.0937
10/31/2017 22:11:40	K1710862-007	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.7622
10/31/2017 22:11:40	K1710862-007	Ti (336.122 nm)	0.0007 (ppm)	4.37	0.0007 (ppm)	-343.7249
10/31/2017 22:11:40	K1710862-007	Tl (351.923 nm)	0.0026 (ppm)	54.26	0.0026 (ppm)	14.4002
10/31/2017 22:11:40	K1710862-007	V (292.401 nm)	-0.0002 u (ppm)	38.00	-0.0002 (ppm)	103.2249
10/31/2017 22:11:40	K1710862-007	Y (360.074 nm)	1.02 (Ratio)	0.78	1.02 (Ratio)	866100.59
10/31/2017 22:11:40	K1710862-007	Y_R (360.074 nm)	1.01 (Ratio)	0.78	1.01 (Ratio)	866765.64
10/31/2017 22:11:40	K1710862-007	Zn (213.857 nm)	0.0023 (ppm)	0.32	0.0023 (ppm)	38.3410
10/31/2017 22:14:59	K1710862-008	Ag (328.068 nm)	0.0001 (ppm)	53.15	0.0001 (ppm)	-95.6160
10/31/2017 22:14:59	K1710862-008	Al (394.401 nm)	0.0180 (ppm)	2.38	0.0180 (ppm)	356.7937
10/31/2017 22:14:59	K1710862-008	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-1.8037
10/31/2017 22:14:59	K1710862-008	B (249.772 nm)	0.0084 (ppm)	0.77	0.0084 (ppm)	267.1408
10/31/2017 22:14:59	K1710862-008	Ba (230.424 nm)	0.0171 (ppm)	0.99	0.0171 (ppm)	577.0664
10/31/2017 22:14:59	K1710862-008	Be (313.107 nm)	0.0000 (ppm)	3.05	0.0000 (ppm)	-475.4145
10/31/2017 22:14:59	K1710862-008	Ca (227.547 nm)	4.3507 (ppm)	1.53	4.3507 (ppm)	249.3363
10/31/2017 22:14:59	K1710862-008	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.7568
10/31/2017 22:14:59	K1710862-008	Co (230.786 nm)	0.0028 (ppm)	4.20	0.0028 (ppm)	24.3043
10/31/2017 22:14:59	K1710862-008	Cr (267.716 nm)	0.0000 u (ppm)	72.53	0.0000 (ppm)	-3.3570
10/31/2017 22:14:59	K1710862-008	Cu (327.395 nm)	0.0009 (ppm)	5.37	0.0009 (ppm)	67.5037
10/31/2017 22:14:59	K1710862-008	Fe (234.350 nm)	1.2240 (ppm)	0.45	1.2240 (ppm)	13683.5234
10/31/2017 22:14:59	K1710862-008	K (766.491 nm)	1.3499 (ppm)	1.00	1.3499 (ppm)	4064.3127
10/31/2017 22:14:59	K1710862-008	Mg (279.078 nm)	2.1669 (ppm)	0.42	2.1669 (ppm)	4180.7297
10/31/2017 22:14:59	K1710862-008	Mn (257.610 nm)	0.2517 (ppm)	1.85	0.2517 (ppm)	78911.0647
10/31/2017 22:14:59	K1710862-008	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	9.5538
10/31/2017 22:14:59	K1710862-008	Na (588.995 nm)	3.5318 (ppm)	0.90	3.5318 (ppm)	155149.1956
10/31/2017 22:14:59	K1710862-008	Ni (230.299 nm)	-0.0027 u (ppm)	7.68	-0.0027 (ppm)	-38.6914
10/31/2017 22:14:59	K1710862-008	Pb (220.353 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	3.0094
10/31/2017 22:14:59	K1710862-008	Sb (217.582 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-0.2533
10/31/2017 22:14:59	K1710862-008	Se (196.026 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	-1.1282

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:14:59	K1710862-008	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.3091
10/31/2017 22:14:59	K1710862-008	Sr (216.596 nm)	0.0279 (ppm)	1.24	0.0279 (ppm)	395.6605
10/31/2017 22:14:59	K1710862-008	Ti (336.122 nm)	0.0007 (ppm)	4.67	0.0007 (ppm)	-333.2493
10/31/2017 22:14:59	K1710862-008	Tl (351.923 nm)	0.0034 (ppm)	21.52	0.0034 (ppm)	16.5464
10/31/2017 22:14:59	K1710862-008	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	111.4589
10/31/2017 22:14:59	K1710862-008	Y (360.074 nm)	1.00 (Ratio)	0.61	1.00 (Ratio)	854986.16
10/31/2017 22:14:59	K1710862-008	Y_R (360.074 nm)	1.00 (Ratio)	0.61	1.00 (Ratio)	855639.49
10/31/2017 22:14:59	K1710862-008	Zn (213.857 nm)	0.0040 (ppm)	1.88	0.0040 (ppm)	84.4661
10/31/2017 22:18:18	K1710862-009	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-102.4516
10/31/2017 22:18:18	K1710862-009	Al (394.401 nm)	0.0256 (ppm)	3.02	0.0256 (ppm)	453.3629
10/31/2017 22:18:18	K1710862-009	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-1.0902
10/31/2017 22:18:18	K1710862-009	B (249.772 nm)	0.0082 (ppm)	1.99	0.0082 (ppm)	260.5212
10/31/2017 22:18:18	K1710862-009	Ba (230.424 nm)	0.0171 (ppm)	0.29	0.0171 (ppm)	576.6599
10/31/2017 22:18:18	K1710862-009	Be (313.107 nm)	0.0000 (ppm)	27.05	0.0000 (ppm)	-480.5394
10/31/2017 22:18:18	K1710862-009	Ca (227.547 nm)	4.3726 (ppm)	0.93	4.3726 (ppm)	250.5700
10/31/2017 22:18:18	K1710862-009	Cd (214.439 nm)	-0.0001 u (ppm)	99.85	-0.0001 (ppm)	10.7550
10/31/2017 22:18:18	K1710862-009	Co (230.786 nm)	0.0027 (ppm)	14.32	0.0027 (ppm)	23.0659
10/31/2017 22:18:18	K1710862-009	Cr (267.716 nm)	-0.0001 u (ppm)	29.55	-0.0001 (ppm)	-4.9547
10/31/2017 22:18:18	K1710862-009	Cu (327.395 nm)	0.0011 (ppm)	3.21	0.0011 (ppm)	80.9301
10/31/2017 22:18:18	K1710862-009	Fe (234.350 nm)	1.6292 (ppm)	0.24	1.6292 (ppm)	18208.7422
10/31/2017 22:18:18	K1710862-009	K (766.491 nm)	1.3575 (ppm)	1.33	1.3575 (ppm)	4087.2495
10/31/2017 22:18:18	K1710862-009	Mg (279.078 nm)	2.1839 (ppm)	0.35	2.1839 (ppm)	4213.5973
10/31/2017 22:18:18	K1710862-009	Mn (257.610 nm)	0.2522 (ppm)	1.79	0.2522 (ppm)	79053.4599
10/31/2017 22:18:18	K1710862-009	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	6.1489
10/31/2017 22:18:18	K1710862-009	Na (588.995 nm)	3.6198 (ppm)	0.72	3.6198 (ppm)	159148.7244
10/31/2017 22:18:18	K1710862-009	Ni (230.299 nm)	-0.0028 u (ppm)	10.22	-0.0028 (ppm)	-39.7523
10/31/2017 22:18:18	K1710862-009	Pb (220.353 nm)	0.0010 (ppm)	38.13	0.0010 (ppm)	7.2420
10/31/2017 22:18:18	K1710862-009	Sb (217.582 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.6592
10/31/2017 22:18:18	K1710862-009	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	0.3194
10/31/2017 22:18:18	K1710862-009	Sn (189.925 nm)	-0.0002 u (ppm)	74.99	-0.0002 (ppm)	-0.3587
10/31/2017 22:18:18	K1710862-009	Sr (216.596 nm)	0.0282 (ppm)	0.88	0.0282 (ppm)	400.4164
10/31/2017 22:18:18	K1710862-009	Ti (336.122 nm)	0.0008 (ppm)	5.16	0.0008 (ppm)	-323.4255
10/31/2017 22:18:18	K1710862-009	Tl (351.923 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	6.7032
10/31/2017 22:18:18	K1710862-009	V (292.401 nm)	0.0001 (ppm)	76.04	0.0001 (ppm)	114.0276
10/31/2017 22:18:18	K1710862-009	Y (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	848586.03
10/31/2017 22:18:18	K1710862-009	Y_R (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	849232.34
10/31/2017 22:18:18	K1710862-009	Zn (213.857 nm)	0.0036 (ppm)	1.59	0.0036 (ppm)	74.9186
10/31/2017 22:21:38	K1710862-010	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-108.3584
10/31/2017 22:21:38	K1710862-010	Al (394.401 nm)	0.0275 (ppm)	1.61	0.0275 (ppm)	478.3355
10/31/2017 22:21:38	K1710862-010	As (188.980 nm)	0.0014 (ppm)	48.65	0.0014 (ppm)	-0.2042
10/31/2017 22:21:38	K1710862-010	B (249.772 nm)	0.0082 (ppm)	3.12	0.0082 (ppm)	259.6216
10/31/2017 22:21:38	K1710862-010	Ba (230.424 nm)	0.0168 (ppm)	1.15	0.0168 (ppm)	565.6659
10/31/2017 22:21:38	K1710862-010	Be (313.107 nm)	0.0000 (ppm)	33.99	0.0000 (ppm)	-488.3255
10/31/2017 22:21:38	K1710862-010	Ca (227.547 nm)	4.3380 (ppm)	1.25	4.3380 (ppm)	248.6214
10/31/2017 22:21:38	K1710862-010	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.1072
10/31/2017 22:21:38	K1710862-010	Co (230.786 nm)	0.0027 (ppm)	6.67	0.0027 (ppm)	23.0229
10/31/2017 22:21:38	K1710862-010	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.3026
10/31/2017 22:21:38	K1710862-010	Cu (327.395 nm)	0.0012 (ppm)	7.29	0.0012 (ppm)	87.8776
10/31/2017 22:21:38	K1710862-010	Fe (234.350 nm)	1.5782 (ppm)	0.40	1.5782 (ppm)	17638.9078
10/31/2017 22:21:38	K1710862-010	K (766.491 nm)	1.3484 (ppm)	1.06	1.3484 (ppm)	4059.6835
10/31/2017 22:21:38	K1710862-010	Mg (279.078 nm)	2.1515 (ppm)	0.31	2.1515 (ppm)	4150.9638

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:21:38	K1710862-010	Mn (257.610 nm)	0.2324 (ppm)	1.73	0.2324 (ppm)	72850.8343
10/31/2017 22:21:38	K1710862-010	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	9.3022
10/31/2017 22:21:38	K1710862-010	Na (588.995 nm)	3.6340 (ppm)	0.78	3.6340 (ppm)	159793.6046
10/31/2017 22:21:38	K1710862-010	Ni (230.299 nm)	-0.0025 u (ppm)	21.86	-0.0025 (ppm)	-37.5358
10/31/2017 22:21:38	K1710862-010	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	5.6874
10/31/2017 22:21:38	K1710862-010	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.3506
10/31/2017 22:21:38	K1710862-010	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.0657
10/31/2017 22:21:38	K1710862-010	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.2035
10/31/2017 22:21:38	K1710862-010	Sr (216.596 nm)	0.0280 (ppm)	3.27	0.0280 (ppm)	396.6791
10/31/2017 22:21:38	K1710862-010	Ti (336.122 nm)	0.0008 (ppm)	0.41	0.0008 (ppm)	-316.8211
10/31/2017 22:21:38	K1710862-010	Tl (351.923 nm)	0.0025 (ppm)	73.40	0.0025 (ppm)	14.2631
10/31/2017 22:21:38	K1710862-010	V (292.401 nm)	0.0002 (ppm)	22.33	0.0002 (ppm)	116.2705
10/31/2017 22:21:38	K1710862-010	Y (360.074 nm)	1.00 (Ratio)	0.79	1.00 (Ratio)	851306.43
10/31/2017 22:21:38	K1710862-010	Y_R (360.074 nm)	1.00 (Ratio)	0.78	1.00 (Ratio)	851883.76
10/31/2017 22:21:38	K1710862-010	Zn (213.857 nm)	0.0050 (ppm)	1.56	0.0050 (ppm)	111.8263
10/31/2017 22:24:56	K1710862-001 T	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-100.0339
10/31/2017 22:24:56	K1710862-001 T	Al (394.401 nm)	0.0935 (ppm)	0.40	0.0935 (ppm)	1321.9637
10/31/2017 22:24:56	K1710862-001 T	As (188.980 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-1.9546
10/31/2017 22:24:56	K1710862-001 T	B (249.772 nm)	0.0069 (ppm)	1.77	0.0069 (ppm)	224.7696
10/31/2017 22:24:56	K1710862-001 T	Ba (230.424 nm)	0.0143 (ppm)	0.61	0.0143 (ppm)	482.7812
10/31/2017 22:24:56	K1710862-001 T	Be (313.107 nm)	0.0000 (ppm)	23.97	0.0000 (ppm)	-491.8050
10/31/2017 22:24:56	K1710862-001 T	Ca (227.547 nm)	2.0869 (ppm)	1.52	2.0869 (ppm)	121.8993
10/31/2017 22:24:56	K1710862-001 T	Cd (214.439 nm)	-0.0001 u (ppm)	4.86	-0.0001 (ppm)	11.9150
10/31/2017 22:24:56	K1710862-001 T	Co (230.786 nm)	0.0004 (ppm)	40.39	0.0004 (ppm)	0.8130
10/31/2017 22:24:56	K1710862-001 T	Cr (267.716 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.1943
10/31/2017 22:24:56	K1710862-001 T	Cu (327.395 nm)	0.0034 (ppm)	1.91	0.0034 (ppm)	225.3272
10/31/2017 22:24:56	K1710862-001 T	Fe (234.350 nm)	1.8673 (ppm)	0.22	1.8673 (ppm)	20868.3426
10/31/2017 22:24:56	K1710862-001 T	K (766.491 nm)	0.9574 (ppm)	0.74	0.9574 (ppm)	2879.8779
10/31/2017 22:24:56	K1710862-001 T	Mg (279.078 nm)	1.1127 (ppm)	0.52	1.1127 (ppm)	2146.4787
10/31/2017 22:24:56	K1710862-001 T	Mn (257.610 nm)	0.0322 (ppm)	14.71	0.0322 (ppm)	10092.4123
10/31/2017 22:24:56	K1710862-001 T	Mo (202.032 nm)	0.0002 (ppm)	96.11	0.0002 (ppm)	9.1475
10/31/2017 22:24:56	K1710862-001 T	Na (588.995 nm)	3.2370 (ppm)	0.67	3.2370 (ppm)	141742.4672
10/31/2017 22:24:56	K1710862-001 T	Ni (230.299 nm)	-0.0037 u (ppm)	18.97	-0.0037 (ppm)	-45.7783
10/31/2017 22:24:56	K1710862-001 T	Pb (220.353 nm)	0.0067 (ppm)	9.21	0.0067 (ppm)	19.2733
10/31/2017 22:24:56	K1710862-001 T	Sb (217.582 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.6003
10/31/2017 22:24:56	K1710862-001 T	Se (196.026 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	2.0907
10/31/2017 22:24:56	K1710862-001 T	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.4708
10/31/2017 22:24:56	K1710862-001 T	Sr (216.596 nm)	0.0176 (ppm)	0.39	0.0176 (ppm)	249.5898
10/31/2017 22:24:56	K1710862-001 T	Ti (336.122 nm)	0.0031 (ppm)	1.76	0.0031 (ppm)	157.6143
10/31/2017 22:24:56	K1710862-001 T	Tl (351.923 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	4.2707
10/31/2017 22:24:56	K1710862-001 T	V (292.401 nm)	0.0005 (ppm)	37.39	0.0005 (ppm)	127.2103
10/31/2017 22:24:56	K1710862-001 T	Y (360.074 nm)	1.00 (Ratio)	0.54	1.00 (Ratio)	857274.94
10/31/2017 22:24:56	K1710862-001 T	Y_R (360.074 nm)	1.00 (Ratio)	0.54	1.00 (Ratio)	857867.57
10/31/2017 22:24:56	K1710862-001 T	Zn (213.857 nm)	0.0029 (ppm)	1.25	0.0029 (ppm)	55.0750
10/31/2017 22:28:16	K1710862-002 T	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-105.9984
10/31/2017 22:28:16	K1710862-002 T	Al (394.401 nm)	0.0836 (ppm)	1.79	0.0836 (ppm)	1195.7241
10/31/2017 22:28:16	K1710862-002 T	As (188.980 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-1.9146
10/31/2017 22:28:16	K1710862-002 T	B (249.772 nm)	0.0069 (ppm)	1.57	0.0069 (ppm)	224.7119
10/31/2017 22:28:16	K1710862-002 T	Ba (230.424 nm)	0.0141 (ppm)	1.13	0.0141 (ppm)	477.4470
10/31/2017 22:28:16	K1710862-002 T	Be (313.107 nm)	0.0000 (ppm)	23.75	0.0000 (ppm)	-497.6433
10/31/2017 22:28:16	K1710862-002 T	Ca (227.547 nm)	2.0813 (ppm)	0.85	2.0813 (ppm)	121.5831

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:28:16	K1710862-002 T	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	12.3668
10/31/2017 22:28:16	K1710862-002 T	Co (230.786 nm)	0.0001 (ppm)	88.72	0.0001 (ppm)	-2.6269
10/31/2017 22:28:16	K1710862-002 T	Cr (267.716 nm)	0.0002 (ppm)	28.34	0.0002 (ppm)	8.7448
10/31/2017 22:28:16	K1710862-002 T	Cu (327.395 nm)	0.0033 (ppm)	1.52	0.0033 (ppm)	217.9965
10/31/2017 22:28:16	K1710862-002 T	Fe (234.350 nm)	1.8404 (ppm)	0.43	1.8404 (ppm)	20567.4498
10/31/2017 22:28:16	K1710862-002 T	K (766.491 nm)	0.9481 (ppm)	2.02	0.9481 (ppm)	2851.7331
10/31/2017 22:28:16	K1710862-002 T	Mg (279.078 nm)	1.1083 (ppm)	0.66	1.1083 (ppm)	2137.9802
10/31/2017 22:28:16	K1710862-002 T	Mn (257.610 nm)	0.0313 (ppm)	15.01	0.0313 (ppm)	9830.4073
10/31/2017 22:28:16	K1710862-002 T	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.8846
10/31/2017 22:28:16	K1710862-002 T	Na (588.995 nm)	3.2151 (ppm)	0.66	3.2151 (ppm)	140744.5937
10/31/2017 22:28:16	K1710862-002 T	Ni (230.299 nm)	-0.0032 u (ppm)	10.59	-0.0032 (ppm)	-42.2121
10/31/2017 22:28:16	K1710862-002 T	Pb (220.353 nm)	0.0069 (ppm)	18.20	0.0069 (ppm)	19.7997
10/31/2017 22:28:16	K1710862-002 T	Sb (217.582 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.5607
10/31/2017 22:28:16	K1710862-002 T	Se (196.026 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	1.6996
10/31/2017 22:28:16	K1710862-002 T	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.7368
10/31/2017 22:28:16	K1710862-002 T	Sr (216.596 nm)	0.0172 (ppm)	1.21	0.0172 (ppm)	244.2541
10/31/2017 22:28:16	K1710862-002 T	Ti (336.122 nm)	0.0027 (ppm)	2.41	0.0027 (ppm)	82.8436
10/31/2017 22:28:16	K1710862-002 T	Tl (351.923 nm)	0.0006 (ppm)	> 100.00	0.0006 (ppm)	9.0147
10/31/2017 22:28:16	K1710862-002 T	V (292.401 nm)	0.0005 (ppm)	34.63	0.0005 (ppm)	126.7297
10/31/2017 22:28:16	K1710862-002 T	Y (360.074 nm)	1.00 (Ratio)	0.75	1.00 (Ratio)	854982.13
10/31/2017 22:28:16	K1710862-002 T	Y_R (360.074 nm)	1.00 (Ratio)	0.75	1.00 (Ratio)	855513.58
10/31/2017 22:28:16	K1710862-002 T	Zn (213.857 nm)	0.0027 (ppm)	2.60	0.0027 (ppm)	47.9294
10/31/2017 22:31:35	K1710862-006 T	Ag (328.068 nm)	-0.0001 u (ppm)	56.66	-0.0001 (ppm)	-113.8405
10/31/2017 22:31:35	K1710862-006 T	Al (394.401 nm)	0.0736 (ppm)	1.08	0.0736 (ppm)	1067.6261
10/31/2017 22:31:35	K1710862-006 T	As (188.980 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-2.8890
10/31/2017 22:31:35	K1710862-006 T	B (249.772 nm)	0.0082 (ppm)	2.29	0.0082 (ppm)	260.8291
10/31/2017 22:31:35	K1710862-006 T	Ba (230.424 nm)	0.0176 (ppm)	2.26	0.0176 (ppm)	592.6917
10/31/2017 22:31:35	K1710862-006 T	Be (313.107 nm)	0.0000 (ppm)	14.98	0.0000 (ppm)	-459.6046
10/31/2017 22:31:35	K1710862-006 T	Ca (227.547 nm)	3.9766 (ppm)	0.85	3.9766 (ppm)	228.2780
10/31/2017 22:31:35	K1710862-006 T	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	10.6734
10/31/2017 22:31:35	K1710862-006 T	Co (230.786 nm)	0.0016 (ppm)	26.60	0.0016 (ppm)	12.5951
10/31/2017 22:31:35	K1710862-006 T	Cr (267.716 nm)	0.0001 (ppm)	55.05	0.0001 (ppm)	5.3315
10/31/2017 22:31:35	K1710862-006 T	Cu (327.395 nm)	0.0013 (ppm)	8.34	0.0013 (ppm)	95.9291
10/31/2017 22:31:35	K1710862-006 T	Fe (234.350 nm)	3.0671 (ppm)	0.35	3.0671 (ppm)	34268.5861
10/31/2017 22:31:35	K1710862-006 T	K (766.491 nm)	1.2948 (ppm)	0.97	1.2948 (ppm)	3897.9443
10/31/2017 22:31:35	K1710862-006 T	Mg (279.078 nm)	1.9654 (ppm)	0.38	1.9654 (ppm)	3791.8865
10/31/2017 22:31:35	K1710862-006 T	Mn (257.610 nm)	0.1819 (ppm)	2.20	0.1819 (ppm)	57013.3333
10/31/2017 22:31:35	K1710862-006 T	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	8.3203
10/31/2017 22:31:35	K1710862-006 T	Na (588.995 nm)	3.5129 (ppm)	0.80	3.5129 (ppm)	154289.0960
10/31/2017 22:31:35	K1710862-006 T	Ni (230.299 nm)	-0.0025 u (ppm)	10.71	-0.0025 (ppm)	-37.2808
10/31/2017 22:31:35	K1710862-006 T	Pb (220.353 nm)	0.0010 (ppm)	10.86	0.0010 (ppm)	7.2895
10/31/2017 22:31:35	K1710862-006 T	Sb (217.582 nm)	-0.0009 u (ppm)	29.58	-0.0009 (ppm)	-0.3720
10/31/2017 22:31:35	K1710862-006 T	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-0.2412
10/31/2017 22:31:35	K1710862-006 T	Sn (189.925 nm)	-0.0013 u (ppm)	43.85	-0.0013 (ppm)	-1.6526
10/31/2017 22:31:35	K1710862-006 T	Sr (216.596 nm)	0.0267 (ppm)	1.52	0.0267 (ppm)	378.9631
10/31/2017 22:31:35	K1710862-006 T	Ti (336.122 nm)	0.0018 (ppm)	13.38	0.0018 (ppm)	-95.9366
10/31/2017 22:31:35	K1710862-006 T	Tl (351.923 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	9.7988
10/31/2017 22:31:35	K1710862-006 T	V (292.401 nm)	0.0006 (ppm)	8.90	0.0006 (ppm)	131.3944
10/31/2017 22:31:35	K1710862-006 T	Y (360.074 nm)	1.00 (Ratio)	0.90	1.00 (Ratio)	854467.19
10/31/2017 22:31:35	K1710862-006 T	Y_R (360.074 nm)	1.00 (Ratio)	0.90	1.00 (Ratio)	854943.76
10/31/2017 22:31:35	K1710862-006 T	Zn (213.857 nm)	0.0063 (ppm)	0.90	0.0063 (ppm)	148.2504

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:34:53	K1710862-006S T	Ag (328.068 nm)	0.0487 (ppm)	0.66	0.0487 (ppm)	3378.3098
10/31/2017 22:34:53	K1710862-006S T	Al (394.401 nm)	1.9051 (ppm)	0.55	1.9051 (ppm)	24506.9441
10/31/2017 22:34:53	K1710862-006S T	As (188.980 nm)	0.0414 (ppm)	10.73	0.0414 (ppm)	35.5657
10/31/2017 22:34:53	K1710862-006S T	B (249.772 nm)	0.9648 (ppm)	0.39	0.9648 (ppm)	26746.0495
10/31/2017 22:34:53	K1710862-006S T	Ba (230.424 nm)	2.0895 (ppm)	0.63	2.0895 (ppm)	70249.9977
10/31/2017 22:34:53	K1710862-006S T	Be (313.107 nm)	0.0500 (ppm)	0.35	0.0500 (ppm)	73321.4960
10/31/2017 22:34:53	K1710862-006S T	Ca (227.547 nm)	5.9450 (ppm)	0.50	5.9450 (ppm)	339.0886
10/31/2017 22:34:53	K1710862-006S T	Cd (214.439 nm)	0.0511 (ppm)	0.66	0.0511 (ppm)	1120.7331
10/31/2017 22:34:53	K1710862-006S T	Co (230.786 nm)	0.5132 (ppm)	0.24	0.5132 (ppm)	5062.8168
10/31/2017 22:34:53	K1710862-006S T	Cr (267.716 nm)	0.1990 (ppm)	0.44	0.1990 (ppm)	9850.1814
10/31/2017 22:34:53	K1710862-006S T	Cu (327.395 nm)	0.2390 (ppm)	0.40	0.2390 (ppm)	14851.1022
10/31/2017 22:34:53	K1710862-006S T	Fe (234.350 nm)	4.0345 (ppm)	0.40	4.0345 (ppm)	45073.8562
10/31/2017 22:34:53	K1710862-006S T	K (766.491 nm)	20.1040 (ppm)	0.65	20.1040 (ppm)	60650.5112
10/31/2017 22:34:53	K1710862-006S T	Mg (279.078 nm)	3.9326 (ppm)	0.41	3.9326 (ppm)	7588.0880
10/31/2017 22:34:53	K1710862-006S T	Mn (257.610 nm)	0.6676 (ppm)	0.28	0.6676 (ppm)	209248.1636
10/31/2017 22:34:53	K1710862-006S T	Mo (202.032 nm)	0.4741 (ppm)	0.47	0.4741 (ppm)	4839.4704
10/31/2017 22:34:53	K1710862-006S T	Na (588.995 nm)	22.4930 (ppm)	0.62	22.4930 (ppm)	1017403.1148
10/31/2017 22:34:53	K1710862-006S T	Ni (230.299 nm)	0.5061 (ppm)	0.44	0.5061 (ppm)	3389.1040
10/31/2017 22:34:53	K1710862-006S T	Pb (220.353 nm)	0.5093 (ppm)	0.37	0.5093 (ppm)	1093.2575
10/31/2017 22:34:53	K1710862-006S T	Sb (217.582 nm)	0.4930 (ppm)	0.77	0.4930 (ppm)	675.0769
10/31/2017 22:34:53	K1710862-006S T	Se (196.026 nm)	1.0542 (ppm)	1.04	1.0542 (ppm)	903.6286
10/31/2017 22:34:53	K1710862-006S T	Sn (189.925 nm)	5.1092 (ppm)	0.27	5.1092 (ppm)	6186.8168
10/31/2017 22:34:53	K1710862-006S T	Sr (216.596 nm)	2.0855 (ppm)	0.53	2.0855 (ppm)	29611.0456
10/31/2017 22:34:53	K1710862-006S T	Ti (336.122 nm)	0.4852 (ppm)	0.41	0.4852 (ppm)	101039.0535
10/31/2017 22:34:53	K1710862-006S T	Tl (351.923 nm)	1.8500 (ppm)	0.58	1.8500 (ppm)	5088.7539
10/31/2017 22:34:53	K1710862-006S T	V (292.401 nm)	0.4953 (ppm)	0.45	0.4953 (ppm)	17616.8289
10/31/2017 22:34:53	K1710862-006S T	Y (360.074 nm)	0.98 (Ratio)	0.79	0.98 (Ratio)	839337.44
10/31/2017 22:34:53	K1710862-006S T	Y_R (360.074 nm)	0.98 (Ratio)	0.79	0.98 (Ratio)	839758.28
10/31/2017 22:34:53	K1710862-006S T	Zn (213.857 nm)	0.5083 (ppm)	0.59	0.5083 (ppm)	14193.5182
10/31/2017 22:38:12	Continuing Calibration Verification1	Ag (328.068 nm)	0.4777 (ppm)	0.28	0.4777 (ppm)	34027.4857
10/31/2017 22:38:12	Continuing Calibration Verification1	Al (394.401 nm)	9.2063 (ppm)	0.46	9.2063 (ppm)	117945.3435
10/31/2017 22:38:12	Continuing Calibration Verification1	As (188.980 nm)	0.9430 (ppm)	0.52	0.9430 (ppm)	841.5327
10/31/2017 22:38:12	Continuing Calibration Verification1	B (249.772 nm)	2.3607 (ppm)	0.25	2.3607 (ppm)	65396.3618
10/31/2017 22:38:12	Continuing Calibration Verification1	Ba (230.424 nm)	10.0606 (ppm)	0.36	10.0606 (ppm)	338230.6067
10/31/2017 22:38:12	Continuing Calibration Verification1	Be (313.107 nm)	0.2462 (ppm)	0.41	0.2462 (ppm)	363220.0022
10/31/2017 22:38:12	Continuing Calibration Verification1	Ca (227.547 nm)	23.4147 (ppm)	0.65	23.4147 (ppm)	1322.5527
10/31/2017 22:38:12	Continuing Calibration Verification1	Cd (214.439 nm)	0.4920 (ppm)	0.24	0.4920 (ppm)	10664.0462
10/31/2017 22:38:12	Continuing Calibration Verification1	Co (230.786 nm)	2.5377 (ppm)	0.21	2.5377 (ppm)	25050.3094
10/31/2017 22:38:12	Continuing Calibration Verification1	Cr (267.716 nm)	0.4959 (ppm)	0.30	0.4959 (ppm)	24551.5800
10/31/2017 22:38:12	Continuing Calibration Verification1	Cu (327.395 nm)	1.1591 (ppm)	0.46	1.1591 (ppm)	71976.9484
10/31/2017 22:38:12	Continuing Calibration Verification1	Fe (234.350 nm)	4.7397 (ppm)	0.27	4.7397 (ppm)	52950.3521
10/31/2017 22:38:12	Continuing Calibration Verification1	K (766.491 nm)	23.8743 (ppm)	0.68	23.8743 (ppm)	72026.8306
10/31/2017 22:38:12	Continuing Calibration Verification1	Mg (279.078 nm)	24.6487 (ppm)	0.24	24.6487 (ppm)	47563.5486
10/31/2017 22:38:12	Continuing Calibration Verification1	Mn (257.610 nm)	0.7403 (ppm)	0.27	0.7403 (ppm)	232040.3032
10/31/2017 22:38:12	Continuing Calibration Verification1	Mo (202.032 nm)	2.3552 (ppm)	0.22	2.3552 (ppm)	24014.9146
10/31/2017 22:38:12	Continuing Calibration Verification1	Na (588.995 nm)	23.9427 (ppm)	0.67	23.9427 (ppm)	1083327.9424
10/31/2017 22:38:12	Continuing Calibration Verification1	Ni (230.299 nm)	1.9962 (ppm)	0.32	1.9962 (ppm)	13426.8702
10/31/2017 22:38:12	Continuing Calibration Verification1	Pb (220.353 nm)	0.4901 (ppm)	0.52	0.4901 (ppm)	1052.1645
10/31/2017 22:38:12	Continuing Calibration Verification1	Sb (217.582 nm)	4.7880 (ppm)	0.52	4.7880 (ppm)	6548.6826
10/31/2017 22:38:12	Continuing Calibration Verification1	Se (196.026 nm)	0.4847 (ppm)	0.77	0.4847 (ppm)	415.8538
10/31/2017 22:38:12	Continuing Calibration Verification1	Sn (189.925 nm)	5.0034 (ppm)	0.48	5.0034 (ppm)	6058.7895

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:38:12	Continuing Calibration Verification1	Sr (216.596 nm)	2.4967 (ppm)	0.40	2.4967 (ppm)	35448.7971
10/31/2017 22:38:12	Continuing Calibration Verification1	Ti (336.122 nm)	2.4326 (ppm)	0.37	2.4326 (ppm)	508499.0123
10/31/2017 22:38:12	Continuing Calibration Verification1	Tl (351.923 nm)	0.9595 (ppm)	0.81	0.9595 (ppm)	2642.8111
10/31/2017 22:38:12	Continuing Calibration Verification1	V (292.401 nm)	2.4557 (ppm)	0.34	2.4557 (ppm)	86910.7911
10/31/2017 22:38:12	Continuing Calibration Verification1	Y (360.074 nm)	0.98 (Ratio)	0.73	0.98 (Ratio)	831973.01
10/31/2017 22:38:12	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97 (Ratio)	0.73	0.97 (Ratio)	832377.68
10/31/2017 22:38:12	Continuing Calibration Verification1	Zn (213.857 nm)	0.9869 (ppm)	0.26	0.9869 (ppm)	27583.7544
10/31/2017 22:41:31	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002 (ppm)	30.64	0.0002 (ppm)	-90.3847
10/31/2017 22:41:31	Continuing Calibration Blank1	Al (394.401 nm)	0.0034 (ppm)	46.33	0.0034 (ppm)	169.7673
10/31/2017 22:41:31	Continuing Calibration Blank1	As (188.980 nm)	0.0027 (ppm)	90.90	0.0027 (ppm)	0.9530
10/31/2017 22:41:31	Continuing Calibration Blank1	B (249.772 nm)	0.0043 (ppm)	27.74	0.0043 (ppm)	153.3229
10/31/2017 22:41:31	Continuing Calibration Blank1	Ba (230.424 nm)	0.0052 (ppm)	33.94	0.0052 (ppm)	175.2776
10/31/2017 22:41:31	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	26.80	0.0001 (ppm)	-337.4687
10/31/2017 22:41:31	Continuing Calibration Blank1	Ca (227.547 nm)	0.0375 (ppm)	17.99	0.0375 (ppm)	6.5277
10/31/2017 22:41:31	Continuing Calibration Blank1	Cd (214.439 nm)	0.0002 (ppm)	18.55	0.0002 (ppm)	18.8916
10/31/2017 22:41:31	Continuing Calibration Blank1	Co (230.786 nm)	0.0012 (ppm)	60.61	0.0012 (ppm)	8.3274
10/31/2017 22:41:31	Continuing Calibration Blank1	Cr (267.716 nm)	0.0004 (ppm)	23.21	0.0004 (ppm)	17.1938
10/31/2017 22:41:31	Continuing Calibration Blank1	Cu (327.395 nm)	0.0006 (ppm)	55.02	0.0006 (ppm)	52.6701
10/31/2017 22:41:31	Continuing Calibration Blank1	Fe (234.350 nm)	0.0029 (ppm)	36.13	0.0029 (ppm)	43.7731
10/31/2017 22:41:31	Continuing Calibration Blank1	K (766.491 nm)	0.0494 (ppm)	22.96	0.0494 (ppm)	140.1645
10/31/2017 22:41:31	Continuing Calibration Blank1	Mg (279.078 nm)	0.0111 (ppm)	41.27	0.0111 (ppm)	20.8189
10/31/2017 22:41:31	Continuing Calibration Blank1	Mn (257.610 nm)	0.0039 (ppm)	23.79	0.0039 (ppm)	1237.6399
10/31/2017 22:41:31	Continuing Calibration Blank1	Mo (202.032 nm)	0.0031 (ppm)	11.75	0.0031 (ppm)	38.9848
10/31/2017 22:41:31	Continuing Calibration Blank1	Na (588.995 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	-5562.6608
10/31/2017 22:41:31	Continuing Calibration Blank1	Ni (230.299 nm)	0.0006 (ppm)	43.10	0.0006 (ppm)	-16.7297
10/31/2017 22:41:31	Continuing Calibration Blank1	Pb (220.353 nm)	0.0007 (ppm)	77.12	0.0007 (ppm)	6.4935
10/31/2017 22:41:31	Continuing Calibration Blank1	Sb (217.582 nm)	0.0027 (ppm)	> 100.00	0.0027 (ppm)	4.5618
10/31/2017 22:41:31	Continuing Calibration Blank1	Se (196.026 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	1.3708
10/31/2017 22:41:31	Continuing Calibration Blank1	Sn (189.925 nm)	0.0038 (ppm)	14.67	0.0038 (ppm)	4.4716
10/31/2017 22:41:31	Continuing Calibration Blank1	Sr (216.596 nm)	0.0011 (ppm)	29.02	0.0011 (ppm)	14.8075
10/31/2017 22:41:31	Continuing Calibration Blank1	Ti (336.122 nm)	0.0021 (ppm)	18.30	0.0021 (ppm)	-50.4953
10/31/2017 22:41:31	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	5.9676
10/31/2017 22:41:31	Continuing Calibration Blank1	V (292.401 nm)	0.0011 (ppm)	34.07	0.0011 (ppm)	147.7030
10/31/2017 22:41:31	Continuing Calibration Blank1	Y (360.074 nm)	1.02 (Ratio)	0.70	1.02 (Ratio)	866758.05
10/31/2017 22:41:31	Continuing Calibration Blank1	Y_R (360.074 nm)	1.02 (Ratio)	0.70	1.02 (Ratio)	867206.77
10/31/2017 22:41:31	Continuing Calibration Blank1	Zn (213.857 nm)	0.0005 (ppm)	23.35	0.0005 (ppm)	-11.5858
10/31/2017 22:44:50	K1710862-006SD T	Ag (328.068 nm)	0.0487 (ppm)	0.41	0.0487 (ppm)	3379.4114
10/31/2017 22:44:50	K1710862-006SD T	Al (394.401 nm)	1.9059 (ppm)	0.61	1.9059 (ppm)	24517.5273
10/31/2017 22:44:50	K1710862-006SD T	As (188.980 nm)	0.0384 (ppm)	5.64	0.0384 (ppm)	32.8983
10/31/2017 22:44:50	K1710862-006SD T	B (249.772 nm)	0.9639 (ppm)	0.35	0.9639 (ppm)	26720.1378
10/31/2017 22:44:50	K1710862-006SD T	Ba (230.424 nm)	2.0945 (ppm)	0.46	2.0945 (ppm)	70417.9335
10/31/2017 22:44:50	K1710862-006SD T	Be (313.107 nm)	0.0499 (ppm)	0.45	0.0499 (ppm)	73237.6050
10/31/2017 22:44:50	K1710862-006SD T	Ca (227.547 nm)	5.9972 (ppm)	0.43	5.9972 (ppm)	342.0298
10/31/2017 22:44:50	K1710862-006SD T	Cd (214.439 nm)	0.0513 (ppm)	0.69	0.0513 (ppm)	1124.9793
10/31/2017 22:44:50	K1710862-006SD T	Co (230.786 nm)	0.5124 (ppm)	0.52	0.5124 (ppm)	5055.1081
10/31/2017 22:44:50	K1710862-006SD T	Cr (267.716 nm)	0.1987 (ppm)	0.50	0.1987 (ppm)	9839.0637
10/31/2017 22:44:50	K1710862-006SD T	Cu (327.395 nm)	0.2386 (ppm)	0.60	0.2386 (ppm)	14828.9408
10/31/2017 22:44:50	K1710862-006SD T	Fe (234.350 nm)	4.0806 (ppm)	0.41	4.0806 (ppm)	45589.2067
10/31/2017 22:44:50	K1710862-006SD T	K (766.491 nm)	20.1345 (ppm)	0.61	20.1345 (ppm)	60742.5857
10/31/2017 22:44:50	K1710862-006SD T	Mg (279.078 nm)	3.9328 (ppm)	0.49	3.9328 (ppm)	7588.4138
10/31/2017 22:44:50	K1710862-006SD T	Mn (257.610 nm)	0.6655 (ppm)	0.33	0.6655 (ppm)	208596.1926

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:44:50	K1710862-006SD T	Mo (202.032 nm)	0.4746 (ppm)	0.46	0.4746 (ppm)	4845.0174
10/31/2017 22:44:50	K1710862-006SD T	Na (588.995 nm)	22.5149 (ppm)	0.60	22.5149 (ppm)	1018399.0235
10/31/2017 22:44:50	K1710862-006SD T	Ni (230.299 nm)	0.5069 (ppm)	0.50	0.5069 (ppm)	3393.9164
10/31/2017 22:44:50	K1710862-006SD T	Pb (220.353 nm)	0.5103 (ppm)	0.84	0.5103 (ppm)	1095.4402
10/31/2017 22:44:50	K1710862-006SD T	Sb (217.582 nm)	0.4976 (ppm)	0.84	0.4976 (ppm)	681.2441
10/31/2017 22:44:50	K1710862-006SD T	Se (196.026 nm)	1.0513 (ppm)	1.36	1.0513 (ppm)	901.1384
10/31/2017 22:44:50	K1710862-006SD T	Sn (189.925 nm)	5.1009 (ppm)	0.43	5.1009 (ppm)	6176.8553
10/31/2017 22:44:50	K1710862-006SD T	Sr (216.596 nm)	2.0834 (ppm)	0.69	2.0834 (ppm)	29580.3856
10/31/2017 22:44:50	K1710862-006SD T	Ti (336.122 nm)	0.4847 (ppm)	0.52	0.4847 (ppm)	100930.7431
10/31/2017 22:44:50	K1710862-006SD T	Tl (351.923 nm)	1.8417 (ppm)	0.65	1.8417 (ppm)	5065.8989
10/31/2017 22:44:50	K1710862-006SD T	V (292.401 nm)	0.4950 (ppm)	0.51	0.4950 (ppm)	17605.5337
10/31/2017 22:44:50	K1710862-006SD T	Y (360.074 nm)	1.00 (Ratio)	0.69	1.00 (Ratio)	850625.97
10/31/2017 22:44:50	K1710862-006SD T	Y_R (360.074 nm)	1.00 (Ratio)	0.69	1.00 (Ratio)	851016.33
10/31/2017 22:44:50	K1710862-006SD T	Zn (213.857 nm)	0.5073 (ppm)	0.61	0.5073 (ppm)	14164.7868
10/31/2017 22:48:09	K1710862-006A T	Ag (328.068 nm)	0.0460 (ppm)	0.38	0.0460 (ppm)	3185.0809
10/31/2017 22:48:09	K1710862-006A T	Al (394.401 nm)	1.8131 (ppm)	0.39	1.8131 (ppm)	23329.1688
10/31/2017 22:48:09	K1710862-006A T	As (188.980 nm)	0.0376 (ppm)	0.23	0.0376 (ppm)	32.1415
10/31/2017 22:48:09	K1710862-006A T	B (249.772 nm)	1.0419 (ppm)	0.18	1.0419 (ppm)	28881.4504
10/31/2017 22:48:09	K1710862-006A T	Ba (230.424 nm)	1.9733 (ppm)	0.27	1.9733 (ppm)	66342.7388
10/31/2017 22:48:09	K1710862-006A T	Be (313.107 nm)	0.0472 (ppm)	0.23	0.0472 (ppm)	69250.8193
10/31/2017 22:48:09	K1710862-006A T	Ca (227.547 nm)	5.7228 (ppm)	1.29	5.7228 (ppm)	326.5839
10/31/2017 22:48:09	K1710862-006A T	Cd (214.439 nm)	0.0484 (ppm)	0.43	0.0484 (ppm)	1062.2011
10/31/2017 22:48:09	K1710862-006A T	Co (230.786 nm)	0.4847 (ppm)	0.23	0.4847 (ppm)	4781.5340
10/31/2017 22:48:09	K1710862-006A T	Cr (267.716 nm)	0.1880 (ppm)	0.25	0.1880 (ppm)	9305.2320
10/31/2017 22:48:09	K1710862-006A T	Cu (327.395 nm)	0.2256 (ppm)	0.43	0.2256 (ppm)	14019.3691
10/31/2017 22:48:09	K1710862-006A T	Fe (234.350 nm)	3.8580 (ppm)	0.21	3.8580 (ppm)	43102.7389
10/31/2017 22:48:09	K1710862-006A T	K (766.491 nm)	19.1200 (ppm)	0.54	19.1200 (ppm)	57681.5624
10/31/2017 22:48:09	K1710862-006A T	Mg (279.078 nm)	3.7756 (ppm)	0.26	3.7756 (ppm)	7284.9722
10/31/2017 22:48:09	K1710862-006A T	Mn (257.610 nm)	0.6523 (ppm)	1.09	0.6523 (ppm)	204475.1605
10/31/2017 22:48:09	K1710862-006A T	Mo (202.032 nm)	0.4536 (ppm)	0.20	0.4536 (ppm)	4630.4949
10/31/2017 22:48:09	K1710862-006A T	Na (588.995 nm)	21.5800 (ppm)	0.65	21.5800 (ppm)	975883.7681
10/31/2017 22:48:09	K1710862-006A T	Ni (230.299 nm)	0.4788 (ppm)	0.04	0.4788 (ppm)	3205.2062
10/31/2017 22:48:09	K1710862-006A T	Pb (220.353 nm)	0.4813 (ppm)	0.37	0.4813 (ppm)	1033.2876
10/31/2017 22:48:09	K1710862-006A T	Sb (217.582 nm)	0.4742 (ppm)	0.50	0.4742 (ppm)	649.3505
10/31/2017 22:48:09	K1710862-006A T	Se (196.026 nm)	1.0957 (ppm)	0.37	1.0957 (ppm)	939.1656
10/31/2017 22:48:09	K1710862-006A T	Sn (189.925 nm)	4.8728 (ppm)	0.58	4.8728 (ppm)	5900.5914
10/31/2017 22:48:09	K1710862-006A T	Sr (216.596 nm)	2.0508 (ppm)	0.12	2.0508 (ppm)	29117.6873
10/31/2017 22:48:09	K1710862-006A T	Ti (336.122 nm)	0.4625 (ppm)	0.36	0.4625 (ppm)	96292.8854
10/31/2017 22:48:09	K1710862-006A T	Tl (351.923 nm)	1.7457 (ppm)	0.41	1.7457 (ppm)	4802.2565
10/31/2017 22:48:09	K1710862-006A T	V (292.401 nm)	0.4676 (ppm)	0.28	0.4676 (ppm)	16637.9240
10/31/2017 22:48:09	K1710862-006A T	Y (360.074 nm)	0.99 (Ratio)	0.68	0.99 (Ratio)	847712.06
10/31/2017 22:48:09	K1710862-006A T	Y_R (360.074 nm)	0.99 (Ratio)	0.68	0.99 (Ratio)	848083.77
10/31/2017 22:48:09	K1710862-006A T	Zn (213.857 nm)	0.4986 (ppm)	0.27	0.4986 (ppm)	13920.8717
10/31/2017 22:51:29	K1710862-006L T	Ag (328.068 nm)	-0.0002 u (ppm)	48.45	-0.0002 (ppm)	-114.2892
10/31/2017 22:51:29	K1710862-006L T	Al (394.401 nm)	0.0142 (ppm)	2.78	0.0142 (ppm)	307.1232
10/31/2017 22:51:29	K1710862-006L T	As (188.980 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-2.2140
10/31/2017 22:51:29	K1710862-006L T	B (249.772 nm)	0.0043 (ppm)	16.45	0.0043 (ppm)	151.9720
10/31/2017 22:51:29	K1710862-006L T	Ba (230.424 nm)	0.0047 (ppm)	16.19	0.0047 (ppm)	158.5469
10/31/2017 22:51:29	K1710862-006L T	Be (313.107 nm)	0.0001 (ppm)	24.64	0.0001 (ppm)	-445.5697
10/31/2017 22:51:29	K1710862-006L T	Ca (227.547 nm)	0.7926 (ppm)	2.91	0.7926 (ppm)	49.0334
10/31/2017 22:51:29	K1710862-006L T	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	14.8661

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:51:29	K1710862-006L T	Co (230.786 nm)	0.0005 (ppm)	40.00	0.0005 (ppm)	1.1073
10/31/2017 22:51:29	K1710862-006L T	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	4.6995
10/31/2017 22:51:29	K1710862-006L T	Cu (327.395 nm)	0.0005 (ppm)	29.55	0.0005 (ppm)	44.9795
10/31/2017 22:51:29	K1710862-006L T	Fe (234.350 nm)	0.6106 (ppm)	0.18	0.6106 (ppm)	6831.4437
10/31/2017 22:51:29	K1710862-006L T	K (766.491 nm)	0.2880 (ppm)	3.61	0.2880 (ppm)	860.1382
10/31/2017 22:51:29	K1710862-006L T	Mg (279.078 nm)	0.3856 (ppm)	0.91	0.3856 (ppm)	743.3496
10/31/2017 22:51:29	K1710862-006L T	Mn (257.610 nm)	0.0380 (ppm)	2.54	0.0380 (ppm)	11899.4135
10/31/2017 22:51:29	K1710862-006L T	Mo (202.032 nm)	0.0015 (ppm)	4.55	0.0015 (ppm)	22.4368
10/31/2017 22:51:29	K1710862-006L T	Na (588.995 nm)	0.6997 (ppm)	1.24	0.6997 (ppm)	26359.8865
10/31/2017 22:51:29	K1710862-006L T	Ni (230.299 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-22.4681
10/31/2017 22:51:29	K1710862-006L T	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.4424
10/31/2017 22:51:29	K1710862-006L T	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.2835
10/31/2017 22:51:29	K1710862-006L T	Se (196.026 nm)	0.0027 (ppm)	46.93	0.0027 (ppm)	3.1182
10/31/2017 22:51:29	K1710862-006L T	Sn (189.925 nm)	0.0032 u (ppm)	> 100.00	0.0032 (ppm)	3.8174
10/31/2017 22:51:29	K1710862-006L T	Sr (216.596 nm)	0.0061 (ppm)	7.82	0.0061 (ppm)	86.3641
10/31/2017 22:51:29	K1710862-006L T	Ti (336.122 nm)	0.0009 (ppm)	12.99	0.0009 (ppm)	-288.4396
10/31/2017 22:51:29	K1710862-006L T	Tl (351.923 nm)	0.0021 (ppm)	58.13	0.0021 (ppm)	13.1361
10/31/2017 22:51:29	K1710862-006L T	V (292.401 nm)	0.0004 (ppm)	69.81	0.0004 (ppm)	123.2386
10/31/2017 22:51:29	K1710862-006L T	Y (360.074 nm)	1.02 (Ratio)	0.78	1.02 (Ratio)	867208.24
10/31/2017 22:51:29	K1710862-006L T	Y_R (360.074 nm)	1.02 (Ratio)	0.78	1.02 (Ratio)	867648.86
10/31/2017 22:51:29	K1710862-006L T	Zn (213.857 nm)	0.0022 (ppm)	7.74	0.0022 (ppm)	34.3699
10/31/2017 22:54:48	K1710862-014 T	Ag (328.068 nm)	-0.0001 u (ppm)	89.32	-0.0001 (ppm)	-109.4387
10/31/2017 22:54:48	K1710862-014 T	Al (394.401 nm)	0.0016 (ppm)	41.00	0.0016 (ppm)	145.7314
10/31/2017 22:54:48	K1710862-014 T	As (188.980 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-0.1341
10/31/2017 22:54:48	K1710862-014 T	B (249.772 nm)	0.0011 (ppm)	19.18	0.0011 (ppm)	64.1191
10/31/2017 22:54:48	K1710862-014 T	Ba (230.424 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	2.2733
10/31/2017 22:54:48	K1710862-014 T	Be (313.107 nm)	0.0000 (ppm)	71.77	0.0000 (ppm)	-508.9716
10/31/2017 22:54:48	K1710862-014 T	Ca (227.547 nm)	-0.0072 u (ppm)	> 100.00	-0.0072 (ppm)	4.0098
10/31/2017 22:54:48	K1710862-014 T	Cd (214.439 nm)	-0.0001 u (ppm)	87.57	-0.0001 (ppm)	12.1546
10/31/2017 22:54:48	K1710862-014 T	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.6123
10/31/2017 22:54:48	K1710862-014 T	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-1.2463
10/31/2017 22:54:48	K1710862-014 T	Cu (327.395 nm)	0.0001 (ppm)	35.79	0.0001 (ppm)	22.1640
10/31/2017 22:54:48	K1710862-014 T	Fe (234.350 nm)	0.0032 (ppm)	3.25	0.0032 (ppm)	47.6964
10/31/2017 22:54:48	K1710862-014 T	K (766.491 nm)	0.0168 (ppm)	16.21	0.0168 (ppm)	41.7685
10/31/2017 22:54:48	K1710862-014 T	Mg (279.078 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-2.4279
10/31/2017 22:54:48	K1710862-014 T	Mn (257.610 nm)	0.0073 (ppm)	35.00	0.0073 (ppm)	2283.4163
10/31/2017 22:54:48	K1710862-014 T	Mo (202.032 nm)	0.0004 (ppm)	48.52	0.0004 (ppm)	11.1345
10/31/2017 22:54:48	K1710862-014 T	Na (588.995 nm)	-0.0087 u (ppm)	16.16	-0.0087 (ppm)	-5857.8799
10/31/2017 22:54:48	K1710862-014 T	Ni (230.299 nm)	0.0004 (ppm)	63.05	0.0004 (ppm)	-18.2372
10/31/2017 22:54:48	K1710862-014 T	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.1236
10/31/2017 22:54:48	K1710862-014 T	Sb (217.582 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.6234
10/31/2017 22:54:48	K1710862-014 T	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	0.3690
10/31/2017 22:54:48	K1710862-014 T	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.7628
10/31/2017 22:54:48	K1710862-014 T	Sr (216.596 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.5205
10/31/2017 22:54:48	K1710862-014 T	Ti (336.122 nm)	0.0006 (ppm)	10.48	0.0006 (ppm)	-348.2037
10/31/2017 22:54:48	K1710862-014 T	Tl (351.923 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	7.2273
10/31/2017 22:54:48	K1710862-014 T	V (292.401 nm)	-0.0002 u (ppm)	77.66	-0.0002 (ppm)	101.5147
10/31/2017 22:54:48	K1710862-014 T	Y (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	873517.59
10/31/2017 22:54:48	K1710862-014 T	Y_R (360.074 nm)	1.02 (Ratio)	0.61	1.02 (Ratio)	873958.50
10/31/2017 22:54:48	K1710862-014 T	Zn (213.857 nm)	0.0028 (ppm)	4.17	0.0028 (ppm)	50.4361
10/31/2017 22:58:07	Continuing Calibration Verification1	Ag (328.068 nm)	0.4787 (ppm)	0.29	0.4787 (ppm)	34098.4389

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 22:58:07	Continuing Calibration Verification1	Al (394.401 nm)	9.2238 (ppm)	0.49	9.2238 (ppm)	118169.2727
10/31/2017 22:58:07	Continuing Calibration Verification1	As (188.980 nm)	0.9454 (ppm)	1.23	0.9454 (ppm)	843.6327
10/31/2017 22:58:07	Continuing Calibration Verification1	B (249.772 nm)	2.3662 (ppm)	0.33	2.3662 (ppm)	65548.5179
10/31/2017 22:58:07	Continuing Calibration Verification1	Ba (230.424 nm)	10.0887 (ppm)	0.35	10.0887 (ppm)	339174.1403
10/31/2017 22:58:07	Continuing Calibration Verification1	Be (313.107 nm)	0.2475 (ppm)	0.61	0.2475 (ppm)	365029.6228
10/31/2017 22:58:07	Continuing Calibration Verification1	Ca (227.547 nm)	23.4441 (ppm)	0.51	23.4441 (ppm)	1324.2075
10/31/2017 22:58:07	Continuing Calibration Verification1	Cd (214.439 nm)	0.4938 (ppm)	0.23	0.4938 (ppm)	10703.1709
10/31/2017 22:58:07	Continuing Calibration Verification1	Co (230.786 nm)	2.5460 (ppm)	0.25	2.5460 (ppm)	25132.8547
10/31/2017 22:58:07	Continuing Calibration Verification1	Cr (267.716 nm)	0.4978 (ppm)	0.25	0.4978 (ppm)	24645.8818
10/31/2017 22:58:07	Continuing Calibration Verification1	Cu (327.395 nm)	1.1600 (ppm)	0.53	1.1600 (ppm)	72032.3564
10/31/2017 22:58:07	Continuing Calibration Verification1	Fe (234.350 nm)	4.7501 (ppm)	0.29	4.7501 (ppm)	53067.0878
10/31/2017 22:58:07	Continuing Calibration Verification1	K (766.491 nm)	23.8785 (ppm)	0.59	23.8785 (ppm)	72039.4142
10/31/2017 22:58:07	Continuing Calibration Verification1	Mg (279.078 nm)	24.7077 (ppm)	0.28	24.7077 (ppm)	47677.4753
10/31/2017 22:58:07	Continuing Calibration Verification1	Mn (257.610 nm)	0.7414 (ppm)	0.21	0.7414 (ppm)	232397.2850
10/31/2017 22:58:07	Continuing Calibration Verification1	Mo (202.032 nm)	2.3615 (ppm)	0.25	2.3615 (ppm)	24078.9884
10/31/2017 22:58:07	Continuing Calibration Verification1	Na (588.995 nm)	23.9663 (ppm)	0.44	23.9663 (ppm)	1084398.7296
10/31/2017 22:58:07	Continuing Calibration Verification1	Ni (230.299 nm)	1.9995 (ppm)	0.33	1.9995 (ppm)	13449.0123
10/31/2017 22:58:07	Continuing Calibration Verification1	Pb (220.353 nm)	0.4934 (ppm)	0.32	0.4934 (ppm)	1059.2153
10/31/2017 22:58:07	Continuing Calibration Verification1	Sb (217.582 nm)	4.7973 (ppm)	0.78	4.7973 (ppm)	6561.3195
10/31/2017 22:58:07	Continuing Calibration Verification1	Se (196.026 nm)	0.4846 (ppm)	1.81	0.4846 (ppm)	415.8308
10/31/2017 22:58:07	Continuing Calibration Verification1	Sn (189.925 nm)	5.0296 (ppm)	0.13	5.0296 (ppm)	6090.5200
10/31/2017 22:58:07	Continuing Calibration Verification1	Sr (216.596 nm)	2.5025 (ppm)	0.63	2.5025 (ppm)	35531.3673
10/31/2017 22:58:07	Continuing Calibration Verification1	Ti (336.122 nm)	2.4345 (ppm)	0.35	2.4345 (ppm)	508895.2856
10/31/2017 22:58:07	Continuing Calibration Verification1	Tl (351.923 nm)	0.9599 (ppm)	0.37	0.9599 (ppm)	2643.7461
10/31/2017 22:58:07	Continuing Calibration Verification1	V (292.401 nm)	2.4651 (ppm)	0.39	2.4651 (ppm)	87243.0687
10/31/2017 22:58:07	Continuing Calibration Verification1	Y (360.074 nm)	0.97 (Ratio)	0.83	0.97 (Ratio)	830436.21
10/31/2017 22:58:07	Continuing Calibration Verification1	Y_R (360.074 nm)	0.97 (Ratio)	0.82	0.97 (Ratio)	830823.45
10/31/2017 22:58:07	Continuing Calibration Verification1	Zn (213.857 nm)	0.9906 (ppm)	0.31	0.9906 (ppm)	27686.6852
10/31/2017 23:01:26	Continuing Calibration Blank1	Ag (328.068 nm)	0.0003 (ppm)	61.85	0.0003 (ppm)	-80.9776
10/31/2017 23:01:26	Continuing Calibration Blank1	Al (394.401 nm)	0.0076 (ppm)	13.29	0.0076 (ppm)	222.7541
10/31/2017 23:01:26	Continuing Calibration Blank1	As (188.980 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.4842
10/31/2017 23:01:26	Continuing Calibration Blank1	B (249.772 nm)	0.0054 (ppm)	19.06	0.0054 (ppm)	182.7751
10/31/2017 23:01:26	Continuing Calibration Blank1	Ba (230.424 nm)	0.0108 (ppm)	21.70	0.0108 (ppm)	365.9897
10/31/2017 23:01:26	Continuing Calibration Blank1	Be (313.107 nm)	0.0003 (ppm)	17.66	0.0003 (ppm)	-144.2961
10/31/2017 23:01:26	Continuing Calibration Blank1	Ca (227.547 nm)	0.0293 u (ppm)	> 100.00	0.0293 (ppm)	6.0631
10/31/2017 23:01:26	Continuing Calibration Blank1	Cd (214.439 nm)	0.0005 (ppm)	29.82	0.0005 (ppm)	25.1574
10/31/2017 23:01:26	Continuing Calibration Blank1	Co (230.786 nm)	0.0026 (ppm)	13.74	0.0026 (ppm)	22.0202
10/31/2017 23:01:26	Continuing Calibration Blank1	Cr (267.716 nm)	0.0005 (ppm)	31.04	0.0005 (ppm)	22.7026
10/31/2017 23:01:26	Continuing Calibration Blank1	Cu (327.395 nm)	0.0012 (ppm)	19.31	0.0012 (ppm)	87.1604
10/31/2017 23:01:26	Continuing Calibration Blank1	Fe (234.350 nm)	0.0054 (ppm)	19.06	0.0054 (ppm)	71.9310
10/31/2017 23:01:26	Continuing Calibration Blank1	K (766.491 nm)	0.0541 (ppm)	22.73	0.0541 (ppm)	154.2560
10/31/2017 23:01:26	Continuing Calibration Blank1	Mg (279.078 nm)	0.0224 (ppm)	21.68	0.0224 (ppm)	42.5127
10/31/2017 23:01:26	Continuing Calibration Blank1	Mn (257.610 nm)	0.0039 (ppm)	20.94	0.0039 (ppm)	1214.2579
10/31/2017 23:01:26	Continuing Calibration Blank1	Mo (202.032 nm)	0.0046 (ppm)	8.66	0.0046 (ppm)	54.2941
10/31/2017 23:01:26	Continuing Calibration Blank1	Na (588.995 nm)	0.0110 (ppm)	47.23	0.0110 (ppm)	-4957.8322
10/31/2017 23:01:26	Continuing Calibration Blank1	Ni (230.299 nm)	0.0017 (ppm)	40.03	0.0017 (ppm)	-9.0209
10/31/2017 23:01:26	Continuing Calibration Blank1	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.4396
10/31/2017 23:01:26	Continuing Calibration Blank1	Sb (217.582 nm)	0.0044 (ppm)	61.13	0.0044 (ppm)	6.8590
10/31/2017 23:01:26	Continuing Calibration Blank1	Se (196.026 nm)	0.0017 (ppm)	97.78	0.0017 (ppm)	2.1932
10/31/2017 23:01:26	Continuing Calibration Blank1	Sn (189.925 nm)	0.0053 (ppm)	10.53	0.0053 (ppm)	6.3138
10/31/2017 23:01:26	Continuing Calibration Blank1	Sr (216.596 nm)	0.0026 (ppm)	19.53	0.0026 (ppm)	36.1023

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:01:26	Continuing Calibration Blank1	Ti (336.122 nm)	0.0033 (ppm)	14.01	0.0033 (ppm)	215.0010
10/31/2017 23:01:26	Continuing Calibration Blank1	Tl (351.923 nm)	0.0004 (ppm)	71.00	0.0004 (ppm)	8.3853
10/31/2017 23:01:26	Continuing Calibration Blank1	V (292.401 nm)	0.0025 (ppm)	19.83	0.0025 (ppm)	195.7344
10/31/2017 23:01:26	Continuing Calibration Blank1	Y (360.074 nm)	1.01 (Ratio)	0.73	1.01 (Ratio)	862882.91
10/31/2017 23:01:26	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01 (Ratio)	0.74	1.01 (Ratio)	863367.89
10/31/2017 23:01:26	Continuing Calibration Blank1	Zn (213.857 nm)	0.0010 (ppm)	20.33	0.0010 (ppm)	0.6769
10/31/2017 23:04:46	Contract Required Detection Limit	Ag (328.068 nm)	0.0093 (ppm)	1.86	0.0093 (ppm)	560.4223
10/31/2017 23:04:46	Contract Required Detection Limit	Al (394.401 nm)	0.1700 (ppm)	0.87	0.1700 (ppm)	2300.9950
10/31/2017 23:04:46	Contract Required Detection Limit	As (188.980 nm)	0.0183 (ppm)	6.96	0.0183 (ppm)	14.9397
10/31/2017 23:04:46	Contract Required Detection Limit	B (249.772 nm)	0.1867 (ppm)	0.52	0.1867 (ppm)	5203.3363
10/31/2017 23:04:46	Contract Required Detection Limit	Ba (230.424 nm)	0.2098 (ppm)	0.63	0.2098 (ppm)	7056.7172
10/31/2017 23:04:46	Contract Required Detection Limit	Be (313.107 nm)	0.0048 (ppm)	0.39	0.0048 (ppm)	6615.0929
10/31/2017 23:04:46	Contract Required Detection Limit	Ca (227.547 nm)	0.9681 (ppm)	3.33	0.9681 (ppm)	58.9125
10/31/2017 23:04:46	Contract Required Detection Limit	Cd (214.439 nm)	0.0101 (ppm)	0.83	0.0101 (ppm)	233.2222
10/31/2017 23:04:46	Contract Required Detection Limit	Co (230.786 nm)	0.0511 (ppm)	0.75	0.0511 (ppm)	500.5469
10/31/2017 23:04:46	Contract Required Detection Limit	Cr (267.716 nm)	0.0103 (ppm)	1.35	0.0103 (ppm)	508.1192
10/31/2017 23:04:46	Contract Required Detection Limit	Cu (327.395 nm)	0.0237 (ppm)	0.55	0.0237 (ppm)	1481.6656
10/31/2017 23:04:46	Contract Required Detection Limit	Fe (234.350 nm)	0.1015 (ppm)	0.42	0.1015 (ppm)	1145.0259
10/31/2017 23:04:46	Contract Required Detection Limit	K (766.491 nm)	0.9192 (ppm)	0.91	0.9192 (ppm)	2764.5769
10/31/2017 23:04:46	Contract Required Detection Limit	Mg (279.078 nm)	0.9855 (ppm)	0.06	0.9855 (ppm)	1901.0634
10/31/2017 23:04:46	Contract Required Detection Limit	Mn (257.610 nm)	0.0222 R (ppm)	10.41	0.0222 (ppm)	6972.8886 R
10/31/2017 23:04:46	Contract Required Detection Limit	Mo (202.032 nm)	0.0255 (ppm)	0.58	0.0255 (ppm)	266.9819
10/31/2017 23:04:46	Contract Required Detection Limit	Na (588.995 nm)	0.9623 (ppm)	0.70	0.9623 (ppm)	38301.1538
10/31/2017 23:04:46	Contract Required Detection Limit	Ni (230.299 nm)	0.0399 (ppm)	1.92	0.0399 (ppm)	248.3551
10/31/2017 23:04:46	Contract Required Detection Limit	Pb (220.353 nm)	0.0102 (ppm)	14.11	0.0102 (ppm)	26.9167
10/31/2017 23:04:46	Contract Required Detection Limit	Sb (217.582 nm)	0.0576 (ppm)	1.88	0.0576 (ppm)	79.5205
10/31/2017 23:04:46	Contract Required Detection Limit	Se (196.026 nm)	0.0109 (ppm)	12.68	0.0109 (ppm)	10.1485
10/31/2017 23:04:46	Contract Required Detection Limit	Sn (189.925 nm)	0.5021 (ppm)	0.62	0.5021 (ppm)	607.9773
10/31/2017 23:04:46	Contract Required Detection Limit	Sr (216.596 nm)	0.1014 (ppm)	0.66	0.1014 (ppm)	1438.4669
10/31/2017 23:04:46	Contract Required Detection Limit	Ti (336.122 nm)	0.0499 (ppm)	0.53	0.0499 (ppm)	9956.2898
10/31/2017 23:04:46	Contract Required Detection Limit	Tl (351.923 nm)	0.0189 (ppm)	18.16	0.0189 (ppm)	59.1610
10/31/2017 23:04:46	Contract Required Detection Limit	V (292.401 nm)	0.0490 (ppm)	0.65	0.0490 (ppm)	1839.8740
10/31/2017 23:04:46	Contract Required Detection Limit	Y (360.074 nm)	1.02 (Ratio)	0.83	1.02 (Ratio)	869025.01
10/31/2017 23:04:46	Contract Required Detection Limit	Y_R (360.074 nm)	1.02 (Ratio)	0.83	1.02 (Ratio)	869508.91
10/31/2017 23:04:46	Contract Required Detection Limit	Zn (213.857 nm)	0.0194 (ppm)	0.92	0.0194 (ppm)	515.0384
10/31/2017 23:08:06	Interference Check Solution A	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-100.9508
10/31/2017 23:08:06	Interference Check Solution A	Al (394.401 nm)	254.3234 o (ppm)	0.39	254.3234 (ppm)	3254880.2861
10/31/2017 23:08:06	Interference Check Solution A	As (188.980 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-2.3290
10/31/2017 23:08:06	Interference Check Solution A	B (249.772 nm)	0.0399 (ppm)	0.47	0.0399 (ppm)	1137.1433
10/31/2017 23:08:06	Interference Check Solution A	Ba (230.424 nm)	0.0013 (ppm)	20.82	0.0013 (ppm)	46.3246
10/31/2017 23:08:06	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	65.64	0.0000 (ppm)	-539.3984
10/31/2017 23:08:06	Interference Check Solution A	Ca (227.547 nm)	257.4927 o (ppm)	0.48	257.4927 (ppm)	14500.0675
10/31/2017 23:08:06	Interference Check Solution A	Cd (214.439 nm)	-0.0009 u (ppm)	24.70	-0.0009 (ppm)	-6.0419
10/31/2017 23:08:06	Interference Check Solution A	Co (230.786 nm)	-0.0016 u (ppm)	39.64	-0.0016 (ppm)	-19.4724
10/31/2017 23:08:06	Interference Check Solution A	Cr (267.716 nm)	0.0002 (ppm)	63.36	0.0002 (ppm)	8.7785
10/31/2017 23:08:06	Interference Check Solution A	Cu (327.395 nm)	0.0007 (ppm)	14.78	0.0007 (ppm)	57.6338
10/31/2017 23:08:06	Interference Check Solution A	Fe (234.350 nm)	87.5318 o (ppm)	0.33	87.5318 (ppm)	977675.7813
10/31/2017 23:08:06	Interference Check Solution A	K (766.491 nm)	0.0779 (ppm)	29.86	0.0779 (ppm)	226.2902
10/31/2017 23:08:06	Interference Check Solution A	Mg (279.078 nm)	261.2869 o (ppm)	0.29	261.2869 (ppm)	504200.4906
10/31/2017 23:08:06	Interference Check Solution A	Mn (257.610 nm)	0.0084 (ppm)	26.09	0.0084 (ppm)	2632.0164
10/31/2017 23:08:06	Interference Check Solution A	Mo (202.032 nm)	0.0012 (ppm)	60.93	0.0012 (ppm)	19.1167

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:08:06	Interference Check Solution A	Na (588.995 nm)	-0.0089 u (ppm)	10.86	-0.0089 (ppm)	-5863.8095
10/31/2017 23:08:06	Interference Check Solution A	Ni (230.299 nm)	-0.0024 u (ppm)	25.02	-0.0024 (ppm)	-37.0568
10/31/2017 23:08:06	Interference Check Solution A	Pb (220.353 nm)	-0.0027 u (ppm)	19.61	-0.0027 (ppm)	-0.7319
10/31/2017 23:08:06	Interference Check Solution A	Sb (217.582 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-1.3897
10/31/2017 23:08:06	Interference Check Solution A	Se (196.026 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	1.7446
10/31/2017 23:08:06	Interference Check Solution A	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.5926
10/31/2017 23:08:06	Interference Check Solution A	Sr (216.596 nm)	0.0195 (ppm)	4.65	0.0195 (ppm)	276.8605
10/31/2017 23:08:06	Interference Check Solution A	Ti (336.122 nm)	0.0018 (ppm)	2.75	0.0018 (ppm)	-98.3541
10/31/2017 23:08:06	Interference Check Solution A	Tl (351.923 nm)	0.0051 (ppm)	70.25	0.0051 (ppm)	21.2944
10/31/2017 23:08:06	Interference Check Solution A	V (292.401 nm)	0.0032 K (ppm)	8.26	0.0032 (ppm)	222.2335 K
10/31/2017 23:08:06	Interference Check Solution A	Y (360.074 nm)	0.90 (Ratio)	0.72	0.90 (Ratio)	767542.30
10/31/2017 23:08:06	Interference Check Solution A	Y_R (360.074 nm)	0.90 (Ratio)	0.72	0.90 (Ratio)	767848.03
10/31/2017 23:08:06	Interference Check Solution A	Zn (213.857 nm)	0.0110 K (ppm)	0.47	0.0110 (ppm)	281.5480 K
10/31/2017 23:11:25	Interference Check Solution AB	Ag (328.068 nm)	0.2088 (ppm)	0.47	0.2088 (ppm)	14818.5995
10/31/2017 23:11:25	Interference Check Solution AB	Al (394.401 nm)	253.6878 o (ppm)	0.50	253.6878 (ppm)	3246746.0575
10/31/2017 23:11:25	Interference Check Solution AB	As (188.980 nm)	0.1013 (ppm)	2.88	0.1013 (ppm)	89.0876
10/31/2017 23:11:25	Interference Check Solution AB	B (249.772 nm)	0.0400 (ppm)	1.31	0.0400 (ppm)	1141.4887
10/31/2017 23:11:25	Interference Check Solution AB	Ba (230.424 nm)	0.5151 (ppm)	0.13	0.5151 (ppm)	17318.6957
10/31/2017 23:11:25	Interference Check Solution AB	Be (313.107 nm)	0.4921 (ppm)	0.39	0.4921 (ppm)	726454.2844
10/31/2017 23:11:25	Interference Check Solution AB	Ca (227.547 nm)	255.3673 o (ppm)	0.41	255.3673 (ppm)	14380.4213
10/31/2017 23:11:25	Interference Check Solution AB	Cd (214.439 nm)	0.9490 (ppm)	0.41	0.9490 (ppm)	20558.5932
10/31/2017 23:11:25	Interference Check Solution AB	Co (230.786 nm)	0.4856 (ppm)	0.22	0.4856 (ppm)	4790.9818
10/31/2017 23:11:25	Interference Check Solution AB	Cr (267.716 nm)	0.4852 (ppm)	0.29	0.4852 (ppm)	24025.6046
10/31/2017 23:11:25	Interference Check Solution AB	Cu (327.395 nm)	0.5039 (ppm)	0.63	0.5039 (ppm)	31296.7658
10/31/2017 23:11:25	Interference Check Solution AB	Fe (234.350 nm)	87.1777 o (ppm)	0.36	87.1777 (ppm)	973720.6705
10/31/2017 23:11:25	Interference Check Solution AB	K (766.491 nm)	0.0123 (ppm)	91.41	0.0123 (ppm)	28.4037
10/31/2017 23:11:25	Interference Check Solution AB	Mg (279.078 nm)	260.8966 o (ppm)	0.37	260.8966 (ppm)	503447.2227
10/31/2017 23:11:25	Interference Check Solution AB	Mn (257.610 nm)	0.4957 (ppm)	0.81	0.4957 (ppm)	155362.1510
10/31/2017 23:11:25	Interference Check Solution AB	Mo (202.032 nm)	0.0008 (ppm)	62.94	0.0008 (ppm)	15.6278
10/31/2017 23:11:25	Interference Check Solution AB	Na (588.995 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-5497.3496
10/31/2017 23:11:25	Interference Check Solution AB	Ni (230.299 nm)	0.9370 (ppm)	0.24	0.9370 (ppm)	6291.6811
10/31/2017 23:11:25	Interference Check Solution AB	Pb (220.353 nm)	0.0466 (ppm)	6.95	0.0466 (ppm)	104.5132
10/31/2017 23:11:25	Interference Check Solution AB	Sb (217.582 nm)	0.5955 (ppm)	0.40	0.5955 (ppm)	815.1312
10/31/2017 23:11:25	Interference Check Solution AB	Se (196.026 nm)	0.0494 (ppm)	5.55	0.0494 (ppm)	43.0886
10/31/2017 23:11:25	Interference Check Solution AB	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.4000
10/31/2017 23:11:25	Interference Check Solution AB	Sr (216.596 nm)	0.0191 (ppm)	0.02	0.0191 (ppm)	270.6744
10/31/2017 23:11:25	Interference Check Solution AB	Ti (336.122 nm)	0.0015 (ppm)	3.55	0.0015 (ppm)	-171.1558
10/31/2017 23:11:25	Interference Check Solution AB	Tl (351.923 nm)	0.1107 (ppm)	1.32	0.1107 (ppm)	311.2948
10/31/2017 23:11:25	Interference Check Solution AB	V (292.401 nm)	0.4941 (ppm)	0.45	0.4941 (ppm)	17575.5498
10/31/2017 23:11:25	Interference Check Solution AB	Y (360.074 nm)	0.90 (Ratio)	0.66	0.90 (Ratio)	769917.30
10/31/2017 23:11:25	Interference Check Solution AB	Y_R (360.074 nm)	0.90 (Ratio)	0.66	0.90 (Ratio)	770228.28
10/31/2017 23:11:25	Interference Check Solution AB	Zn (213.857 nm)	1.0121 (ppm)	0.37	1.0121 (ppm)	28287.2534
10/31/2017 23:14:44	Continuing Calibration Verification	Ag (328.068 nm)	0.4768 (ppm)	0.33	0.4768 (ppm)	33964.7107
10/31/2017 23:14:44	Continuing Calibration Verification	Al (394.401 nm)	9.2573 (ppm)	0.63	9.2573 (ppm)	118598.5598
10/31/2017 23:14:44	Continuing Calibration Verification	As (188.980 nm)	0.9474 (ppm)	1.01	0.9474 (ppm)	845.4495
10/31/2017 23:14:44	Continuing Calibration Verification	B (249.772 nm)	2.3543 (ppm)	0.25	2.3543 (ppm)	65218.5012
10/31/2017 23:14:44	Continuing Calibration Verification	Ba (230.424 nm)	10.0660 (ppm)	0.50	10.0660 (ppm)	338409.9871
10/31/2017 23:14:44	Continuing Calibration Verification	Be (313.107 nm)	0.2470 (ppm)	0.30	0.2470 (ppm)	364331.3624
10/31/2017 23:14:44	Continuing Calibration Verification	Ca (227.547 nm)	23.3744 (ppm)	0.26	23.3744 (ppm)	1320.2873
10/31/2017 23:14:44	Continuing Calibration Verification	Cd (214.439 nm)	0.4938 (ppm)	0.41	0.4938 (ppm)	10704.5941
10/31/2017 23:14:44	Continuing Calibration Verification	Co (230.786 nm)	2.5380 (ppm)	0.18	2.5380 (ppm)	25053.7449

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:14:44	Continuing Calibration Verification	Cr (267.716 nm)	0.4969 (ppm)	0.28	0.4969 (ppm)	24603.6684
10/31/2017 23:14:44	Continuing Calibration Verification	Cu (327.395 nm)	1.1524 (ppm)	0.36	1.1524 (ppm)	71557.9072
10/31/2017 23:14:44	Continuing Calibration Verification	Fe (234.350 nm)	4.7898 (ppm)	0.58	4.7898 (ppm)	53510.7261
10/31/2017 23:14:44	Continuing Calibration Verification	K (766.491 nm)	23.7213 (ppm)	0.32	23.7213 (ppm)	71565.1789
10/31/2017 23:14:44	Continuing Calibration Verification	Mg (279.078 nm)	24.7587 (ppm)	0.43	24.7587 (ppm)	47775.8507
10/31/2017 23:14:44	Continuing Calibration Verification	Mn (257.610 nm)	0.7378 (ppm)	0.24	0.7378 (ppm)	231263.6375
10/31/2017 23:14:44	Continuing Calibration Verification	Mo (202.032 nm)	2.3539 (ppm)	0.29	2.3539 (ppm)	24001.3742
10/31/2017 23:14:44	Continuing Calibration Verification	Na (588.995 nm)	23.7408 (ppm)	0.47	23.7408 (ppm)	1074148.3424
10/31/2017 23:14:44	Continuing Calibration Verification	Ni (230.299 nm)	1.9929 (ppm)	0.25	1.9929 (ppm)	13405.0901
10/31/2017 23:14:44	Continuing Calibration Verification	Pb (220.353 nm)	0.4899 (ppm)	0.80	0.4899 (ppm)	1051.7748
10/31/2017 23:14:44	Continuing Calibration Verification	Sb (217.582 nm)	4.7714 (ppm)	0.50	4.7714 (ppm)	6525.8759
10/31/2017 23:14:44	Continuing Calibration Verification	Se (196.026 nm)	0.4793 (ppm)	1.11	0.4793 (ppm)	411.2495
10/31/2017 23:14:44	Continuing Calibration Verification	Sn (189.925 nm)	5.0232 (ppm)	0.54	5.0232 (ppm)	6082.7669
10/31/2017 23:14:44	Continuing Calibration Verification	Sr (216.596 nm)	2.5053 (ppm)	0.25	2.5053 (ppm)	35570.6590
10/31/2017 23:14:44	Continuing Calibration Verification	Ti (336.122 nm)	2.4250 (ppm)	0.27	2.4250 (ppm)	506909.9923
10/31/2017 23:14:44	Continuing Calibration Verification	Tl (351.923 nm)	0.9538 (ppm)	0.50	0.9538 (ppm)	2627.1849
10/31/2017 23:14:44	Continuing Calibration Verification	V (292.401 nm)	2.4541 (ppm)	0.32	2.4541 (ppm)	86854.3263
10/31/2017 23:14:44	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.71	0.98 (Ratio)	836982.20
10/31/2017 23:14:44	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.71	0.98 (Ratio)	837351.59
10/31/2017 23:14:44	Continuing Calibration Verification	Zn (213.857 nm)	0.9887 (ppm)	0.30	0.9887 (ppm)	27631.5954
10/31/2017 23:18:03	Continuing Calibration Blank	Ag (328.068 nm)	0.0004 (ppm)	77.07	0.0004 (ppm)	-78.3821
10/31/2017 23:18:03	Continuing Calibration Blank	Al (394.401 nm)	0.0923 (ppm)	39.45	0.0923 (ppm)	1306.8067
10/31/2017 23:18:03	Continuing Calibration Blank	As (188.980 nm)	-0.0019 u (ppm)	77.97	-0.0019 (ppm)	-3.1151
10/31/2017 23:18:03	Continuing Calibration Blank	B (249.772 nm)	0.0048 (ppm)	36.08	0.0048 (ppm)	166.6942
10/31/2017 23:18:03	Continuing Calibration Blank	Ba (230.424 nm)	0.0083 (ppm)	57.92	0.0083 (ppm)	280.8769
10/31/2017 23:18:03	Continuing Calibration Blank	Be (313.107 nm)	0.0004 (ppm)	44.76	0.0004 (ppm)	5.4466
10/31/2017 23:18:03	Continuing Calibration Blank	Ca (227.547 nm)	0.0896 (ppm)	43.78	0.0896 (ppm)	9.4581
10/31/2017 23:18:03	Continuing Calibration Blank	Cd (214.439 nm)	0.0007 (ppm)	48.73	0.0007 (ppm)	29.4387
10/31/2017 23:18:03	Continuing Calibration Blank	Co (230.786 nm)	0.0020 (ppm)	52.26	0.0020 (ppm)	16.5872
10/31/2017 23:18:03	Continuing Calibration Blank	Cr (267.716 nm)	0.0005 (ppm)	59.76	0.0005 (ppm)	22.6024
10/31/2017 23:18:03	Continuing Calibration Blank	Cu (327.395 nm)	0.0011 (ppm)	54.57	0.0011 (ppm)	80.4623
10/31/2017 23:18:03	Continuing Calibration Blank	Fe (234.350 nm)	0.0442 (ppm)	38.03	0.0442 (ppm)	505.0903
10/31/2017 23:18:03	Continuing Calibration Blank	K (766.491 nm)	0.0421 (ppm)	32.10	0.0421 (ppm)	118.2469
10/31/2017 23:18:03	Continuing Calibration Blank	Mg (279.078 nm)	0.1159 (ppm)	40.96	0.1159 (ppm)	222.9214
10/31/2017 23:18:03	Continuing Calibration Blank	Mn (257.610 nm)	0.0037 (ppm)	9.63	0.0037 (ppm)	1174.0533
10/31/2017 23:18:03	Continuing Calibration Blank	Mo (202.032 nm)	0.0040 (ppm)	22.41	0.0040 (ppm)	48.3077
10/31/2017 23:18:03	Continuing Calibration Blank	Na (588.995 nm)	0.0030 u (ppm)	> 100.00	0.0030 (ppm)	-5322.9705
10/31/2017 23:18:03	Continuing Calibration Blank	Ni (230.299 nm)	0.0016 (ppm)	57.56	0.0016 (ppm)	-10.0065
10/31/2017 23:18:03	Continuing Calibration Blank	Pb (220.353 nm)	0.0006 (ppm)	82.40	0.0006 (ppm)	6.3582
10/31/2017 23:18:03	Continuing Calibration Blank	Sb (217.582 nm)	0.0036 (ppm)	28.55	0.0036 (ppm)	5.6634
10/31/2017 23:18:03	Continuing Calibration Blank	Se (196.026 nm)	-0.0021 u (ppm)	87.26	-0.0021 (ppm)	-1.0197
10/31/2017 23:18:03	Continuing Calibration Blank	Sn (189.925 nm)	0.0048 (ppm)	47.82	0.0048 (ppm)	5.7118
10/31/2017 23:18:03	Continuing Calibration Blank	Sr (216.596 nm)	0.0019 (ppm)	54.70	0.0019 (ppm)	26.4154
10/31/2017 23:18:03	Continuing Calibration Blank	Ti (336.122 nm)	0.0026 (ppm)	34.21	0.0026 (ppm)	63.2283
10/31/2017 23:18:03	Continuing Calibration Blank	Tl (351.923 nm)	0.0030 (ppm)	58.13	0.0030 (ppm)	15.5065
10/31/2017 23:18:03	Continuing Calibration Blank	V (292.401 nm)	0.0018 (ppm)	55.53	0.0018 (ppm)	174.3657
10/31/2017 23:18:03	Continuing Calibration Blank	Y (360.074 nm)	1.02 (Ratio)	0.59	1.02 (Ratio)	866768.11
10/31/2017 23:18:03	Continuing Calibration Blank	Y_R (360.074 nm)	1.02 (Ratio)	0.59	1.02 (Ratio)	867255.41
10/31/2017 23:18:03	Continuing Calibration Blank	Zn (213.857 nm)	0.0011 (ppm)	49.09	0.0011 (ppm)	4.1654
10/31/2017 23:21:22	PBW-301960	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-104.9005
10/31/2017 23:21:22	PBW-301960	Al (394.401 nm)	0.0050 (ppm)	26.60	0.0050 (ppm)	189.4618

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:21:22	PBW-301960	As (188.980 nm)	-0.0009 u (ppm)	53.87	-0.0009 (ppm)	-2.2205
10/31/2017 23:21:22	PBW-301960	B (249.772 nm)	0.0019 (ppm)	2.85	0.0019 (ppm)	85.0640
10/31/2017 23:21:22	PBW-301960	Ba (230.424 nm)	0.0002 (ppm)	29.96	0.0002 (ppm)	10.2857
10/31/2017 23:21:22	PBW-301960	Be (313.107 nm)	0.0000 (ppm)	42.03	0.0000 (ppm)	-488.0186
10/31/2017 23:21:22	PBW-301960	Ca (227.547 nm)	0.0412 (ppm)	58.57	0.0412 (ppm)	6.7353
10/31/2017 23:21:22	PBW-301960	Cd (214.439 nm)	-0.0001 u (ppm)	83.62	-0.0001 (ppm)	10.6146
10/31/2017 23:21:22	PBW-301960	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.3342
10/31/2017 23:21:22	PBW-301960	Cr (267.716 nm)	-0.0001 u (ppm)	34.85	-0.0001 (ppm)	-6.9004
10/31/2017 23:21:22	PBW-301960	Cu (327.395 nm)	0.0003 (ppm)	11.50	0.0003 (ppm)	29.7992
10/31/2017 23:21:22	PBW-301960	Fe (234.350 nm)	0.0034 (ppm)	14.76	0.0034 (ppm)	49.8021
10/31/2017 23:21:22	PBW-301960	K (766.491 nm)	0.1247 (ppm)	2.74	0.1247 (ppm)	367.4990
10/31/2017 23:21:22	PBW-301960	Mg (279.078 nm)	0.0048 (ppm)	24.52	0.0048 (ppm)	8.6481
10/31/2017 23:21:22	PBW-301960	Mn (257.610 nm)	0.0061 (ppm)	32.65	0.0061 (ppm)	1913.6579
10/31/2017 23:21:22	PBW-301960	Mo (202.032 nm)	0.0005 (ppm)	24.18	0.0005 (ppm)	12.0715
10/31/2017 23:21:22	PBW-301960	Na (588.995 nm)	0.0177 (ppm)	1.27	0.0177 (ppm)	-4655.6198
10/31/2017 23:21:22	PBW-301960	Ni (230.299 nm)	0.0006 (ppm)	69.14	0.0006 (ppm)	-16.6298
10/31/2017 23:21:22	PBW-301960	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.9333
10/31/2017 23:21:22	PBW-301960	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	1.0242
10/31/2017 23:21:22	PBW-301960	Se (196.026 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	1.4942
10/31/2017 23:21:22	PBW-301960	Sn (189.925 nm)	0.0018 (ppm)	32.37	0.0018 (ppm)	2.1335
10/31/2017 23:21:22	PBW-301960	Sr (216.596 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	0.4480
10/31/2017 23:21:22	PBW-301960	Ti (336.122 nm)	0.0009 (ppm)	14.10	0.0009 (ppm)	-291.9403
10/31/2017 23:21:22	PBW-301960	Tl (351.923 nm)	0.0011 (ppm)	65.27	0.0011 (ppm)	10.4192
10/31/2017 23:21:22	PBW-301960	V (292.401 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	110.1225
10/31/2017 23:21:22	PBW-301960	Y (360.074 nm)	1.02 (Ratio)	0.69	1.02 (Ratio)	871603.67
10/31/2017 23:21:22	PBW-301960	Y_R (360.074 nm)	1.02 (Ratio)	0.69	1.02 (Ratio)	872084.64
10/31/2017 23:21:22	PBW-301960	Zn (213.857 nm)	0.0061 (ppm)	0.81	0.0061 (ppm)	145.3204
10/31/2017 23:24:41	LCSW-301960	Ag (328.068 nm)	0.0486 (ppm)	0.39	0.0486 (ppm)	3366.5469
10/31/2017 23:24:41	LCSW-301960	Al (394.401 nm)	1.8072 (ppm)	0.56	1.8072 (ppm)	23254.3843
10/31/2017 23:24:41	LCSW-301960	As (188.980 nm)	0.0377 (ppm)	5.04	0.0377 (ppm)	32.2773
10/31/2017 23:24:41	LCSW-301960	B (249.772 nm)	0.9501 (ppm)	0.28	0.9501 (ppm)	26338.7150
10/31/2017 23:24:41	LCSW-301960	Ba (230.424 nm)	2.0396 (ppm)	0.21	2.0396 (ppm)	68571.3256
10/31/2017 23:24:41	LCSW-301960	Be (313.107 nm)	0.0494 (ppm)	0.41	0.0494 (ppm)	72462.1765
10/31/2017 23:24:41	LCSW-301960	Ca (227.547 nm)	1.8970 (ppm)	1.80	1.8970 (ppm)	111.2092
10/31/2017 23:24:41	LCSW-301960	Cd (214.439 nm)	0.0508 (ppm)	0.45	0.0508 (ppm)	1114.2608
10/31/2017 23:24:41	LCSW-301960	Co (230.786 nm)	0.5071 (ppm)	0.26	0.5071 (ppm)	5003.2729
10/31/2017 23:24:41	LCSW-301960	Cr (267.716 nm)	0.1969 (ppm)	0.39	0.1969 (ppm)	9749.6903
10/31/2017 23:24:41	LCSW-301960	Cu (327.395 nm)	0.2356 (ppm)	0.57	0.2356 (ppm)	14638.6058
10/31/2017 23:24:41	LCSW-301960	Fe (234.350 nm)	0.9671 (ppm)	0.42	0.9671 (ppm)	10813.4991
10/31/2017 23:24:41	LCSW-301960	K (766.491 nm)	18.7323 (ppm)	0.57	18.7323 (ppm)	56511.7054
10/31/2017 23:24:41	LCSW-301960	Mg (279.078 nm)	1.9808 (ppm)	0.51	1.9808 (ppm)	3821.5946
10/31/2017 23:24:41	LCSW-301960	Mn (257.610 nm)	0.4928 (ppm)	0.36	0.4928 (ppm)	154453.8811
10/31/2017 23:24:41	LCSW-301960	Mo (202.032 nm)	0.4719 (ppm)	0.30	0.4719 (ppm)	4817.8239
10/31/2017 23:24:41	LCSW-301960	Na (588.995 nm)	18.9528 (ppm)	0.54	18.9528 (ppm)	856414.6330
10/31/2017 23:24:41	LCSW-301960	Ni (230.299 nm)	0.5040 (ppm)	0.52	0.5040 (ppm)	3374.9832
10/31/2017 23:24:41	LCSW-301960	Pb (220.353 nm)	0.5095 (ppm)	0.15	0.5095 (ppm)	1093.5685
10/31/2017 23:24:41	LCSW-301960	Sb (217.582 nm)	0.4851 (ppm)	1.17	0.4851 (ppm)	664.2715
10/31/2017 23:24:41	LCSW-301960	Se (196.026 nm)	1.0505 (ppm)	0.50	1.0505 (ppm)	900.4687
10/31/2017 23:24:41	LCSW-301960	Sn (189.925 nm)	5.0203 (ppm)	0.39	5.0203 (ppm)	6079.1715
10/31/2017 23:24:41	LCSW-301960	Sr (216.596 nm)	2.0317 (ppm)	0.30	2.0317 (ppm)	28847.2005
10/31/2017 23:24:41	LCSW-301960	Ti (336.122 nm)	0.4799 (ppm)	0.41	0.4799 (ppm)	99934.4694

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:24:41	LCSW-301960	Tl (351.923 nm)	1.8180 (ppm)	0.51	1.8180 (ppm)	5000.8419
10/31/2017 23:24:41	LCSW-301960	V (292.401 nm)	0.4902 (ppm)	0.38	0.4902 (ppm)	17436.0564
10/31/2017 23:24:41	LCSW-301960	Y (360.074 nm)	0.99 (Ratio)	0.80	0.99 (Ratio)	848386.70
10/31/2017 23:24:41	LCSW-301960	Y_R (360.074 nm)	0.99 (Ratio)	0.80	0.99 (Ratio)	848837.71
10/31/2017 23:24:41	LCSW-301960	Zn (213.857 nm)	0.5083 (ppm)	0.21	0.5083 (ppm)	14194.5123
10/31/2017 23:28:00	R1710054-001	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-106.5390
10/31/2017 23:28:00	R1710054-001	Al (394.401 nm)	0.0330 (ppm)	3.79	0.0330 (ppm)	547.8515
10/31/2017 23:28:00	R1710054-001	As (188.980 nm)	-0.0028 u (ppm)	84.93	-0.0028 (ppm)	-3.9602
10/31/2017 23:28:00	R1710054-001	B (249.772 nm)	0.0376 (ppm)	1.83	0.0376 (ppm)	1074.4309
10/31/2017 23:28:00	R1710054-001	Ba (230.424 nm)	0.0717 (ppm)	0.45	0.0717 (ppm)	2411.1645
10/31/2017 23:28:00	R1710054-001	Be (313.107 nm)	0.0000 (ppm)	6.30	0.0000 (ppm)	-451.0079
10/31/2017 23:28:00	R1710054-001	Ca (227.547 nm)	34.7016 (ppm)	0.58	34.7016 (ppm)	1957.9560
10/31/2017 23:28:00	R1710054-001	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.2323
10/31/2017 23:28:00	R1710054-001	Co (230.786 nm)	0.0007 (ppm)	32.46	0.0007 (ppm)	3.6558
10/31/2017 23:28:00	R1710054-001	Cr (267.716 nm)	0.0000 (ppm)	15.08	0.0000 (ppm)	0.8570
10/31/2017 23:28:00	R1710054-001	Cu (327.395 nm)	0.0004 (ppm)	45.22	0.0004 (ppm)	37.7559
10/31/2017 23:28:00	R1710054-001	Fe (234.350 nm)	0.0720 (ppm)	1.33	0.0720 (ppm)	816.5423
10/31/2017 23:28:00	R1710054-001	K (766.491 nm)	3.8781 (ppm)	0.91	3.8781 (ppm)	11692.5361
10/31/2017 23:28:00	R1710054-001	Mg (279.078 nm)	19.4599 (ppm)	0.35	19.4599 (ppm)	37550.8109
10/31/2017 23:28:00	R1710054-001	Mn (257.610 nm)	0.0120 (ppm)	27.49	0.0120 (ppm)	3766.2300
10/31/2017 23:28:00	R1710054-001	Mo (202.032 nm)	0.0016 (ppm)	11.33	0.0016 (ppm)	23.1437
10/31/2017 23:28:00	R1710054-001	Na (588.995 nm)	45.4604 (ppm)	0.89	45.4604 (ppm)	2061840.5511
10/31/2017 23:28:00	R1710054-001	Ni (230.299 nm)	-0.0022 u (ppm)	54.25	-0.0022 (ppm)	-35.2641
10/31/2017 23:28:00	R1710054-001	Pb (220.353 nm)	-0.0019 u (ppm)	61.54	-0.0019 (ppm)	0.9321
10/31/2017 23:28:00	R1710054-001	Sb (217.582 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	2.6574
10/31/2017 23:28:00	R1710054-001	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.9691
10/31/2017 23:28:00	R1710054-001	Sn (189.925 nm)	0.0032 (ppm)	40.32	0.0032 (ppm)	3.8206
10/31/2017 23:28:00	R1710054-001	Sr (216.596 nm)	0.3880 (ppm)	0.60	0.3880 (ppm)	5508.5307
10/31/2017 23:28:00	R1710054-001	Ti (336.122 nm)	0.0015 (ppm)	4.37	0.0015 (ppm)	-168.0750
10/31/2017 23:28:00	R1710054-001	Tl (351.923 nm)	0.0031 (ppm)	85.29	0.0031 (ppm)	15.7738
10/31/2017 23:28:00	R1710054-001	V (292.401 nm)	0.0005 (ppm)	40.55	0.0005 (ppm)	126.9260
10/31/2017 23:28:00	R1710054-001	Y (360.074 nm)	0.97 (Ratio)	0.70	0.97 (Ratio)	831367.78
10/31/2017 23:28:00	R1710054-001	Y_R (360.074 nm)	0.97 (Ratio)	0.70	0.97 (Ratio)	831772.64
10/31/2017 23:28:00	R1710054-001	Zn (213.857 nm)	0.0068 (ppm)	0.35	0.0068 (ppm)	162.5836
10/31/2017 23:31:19	R1710054-001S	Ag (328.068 nm)	0.0495 (ppm)	0.58	0.0495 (ppm)	3434.2891
10/31/2017 23:31:19	R1710054-001S	Al (394.401 nm)	1.9431 (ppm)	0.54	1.9431 (ppm)	24993.6445
10/31/2017 23:31:19	R1710054-001S	As (188.980 nm)	0.0415 (ppm)	7.11	0.0415 (ppm)	35.5977
10/31/2017 23:31:19	R1710054-001S	B (249.772 nm)	1.0146 (ppm)	0.33	1.0146 (ppm)	28124.1756
10/31/2017 23:31:19	R1710054-001S	Ba (230.424 nm)	2.0930 (ppm)	0.50	2.0930 (ppm)	70366.1416
10/31/2017 23:31:19	R1710054-001S	Be (313.107 nm)	0.0504 (ppm)	0.35	0.0504 (ppm)	73909.3514
10/31/2017 23:31:19	R1710054-001S	Ca (227.547 nm)	37.6239 (ppm)	0.43	37.6239 (ppm)	2122.4664
10/31/2017 23:31:19	R1710054-001S	Cd (214.439 nm)	0.0506 (ppm)	0.25	0.0506 (ppm)	1108.4373
10/31/2017 23:31:19	R1710054-001S	Co (230.786 nm)	0.5037 (ppm)	0.21	0.5037 (ppm)	4968.9100
10/31/2017 23:31:19	R1710054-001S	Cr (267.716 nm)	0.1976 (ppm)	0.46	0.1976 (ppm)	9780.5529
10/31/2017 23:31:19	R1710054-001S	Cu (327.395 nm)	0.2415 (ppm)	0.65	0.2415 (ppm)	15007.9087
10/31/2017 23:31:19	R1710054-001S	Fe (234.350 nm)	1.0360 (ppm)	0.35	1.0360 (ppm)	11583.2042
10/31/2017 23:31:19	R1710054-001S	K (766.491 nm)	23.7997 (ppm)	0.59	23.7997 (ppm)	71801.6330
10/31/2017 23:31:19	R1710054-001S	Mg (279.078 nm)	21.6898 (ppm)	0.36	21.6898 (ppm)	41853.8594
10/31/2017 23:31:19	R1710054-001S	Mn (257.610 nm)	0.4992 (ppm)	0.42	0.4992 (ppm)	156462.6976
10/31/2017 23:31:19	R1710054-001S	Mo (202.032 nm)	0.4824 (ppm)	0.21	0.4824 (ppm)	4924.6115
10/31/2017 23:31:19	R1710054-001S	Na (588.995 nm)	65.0557 o (ppm)	0.68	65.0557 (ppm)	2952929.0117

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:31:19	R1710054-001S	Ni (230.299 nm)	0.4959 (ppm)	0.40	0.4959 (ppm)	3319.9820
10/31/2017 23:31:19	R1710054-001S	Pb (220.353 nm)	0.5023 (ppm)	0.97	0.5023 (ppm)	1078.3108
10/31/2017 23:31:19	R1710054-001S	Sb (217.582 nm)	0.5061 (ppm)	1.03	0.5061 (ppm)	692.8934
10/31/2017 23:31:19	R1710054-001S	Se (196.026 nm)	1.0842 (ppm)	0.15	1.0842 (ppm)	929.3052
10/31/2017 23:31:19	R1710054-001S	Sn (189.925 nm)	5.0728 (ppm)	0.57	5.0728 (ppm)	6142.7989
10/31/2017 23:31:19	R1710054-001S	Sr (216.596 nm)	2.4051 (ppm)	0.17	2.4051 (ppm)	34148.4359
10/31/2017 23:31:19	R1710054-001S	Ti (336.122 nm)	0.4892 (ppm)	0.41	0.4892 (ppm)	101877.0148
10/31/2017 23:31:19	R1710054-001S	Tl (351.923 nm)	1.9091 (ppm)	0.47	1.9091 (ppm)	5250.9763
10/31/2017 23:31:19	R1710054-001S	V (292.401 nm)	0.4990 (ppm)	0.46	0.4990 (ppm)	17745.3236
10/31/2017 23:31:19	R1710054-001S	Y (360.074 nm)	0.96 (Ratio)	0.68	0.96 (Ratio)	821696.23
10/31/2017 23:31:19	R1710054-001S	Y_R (360.074 nm)	0.96 (Ratio)	0.68	0.96 (Ratio)	822148.32
10/31/2017 23:31:19	R1710054-001S	Zn (213.857 nm)	0.5082 (ppm)	0.27	0.5082 (ppm)	14190.9149
10/31/2017 23:34:38	R1710054-001SD	Ag (328.068 nm)	0.0493 (ppm)	1.99	0.0493 (ppm)	3419.0359
10/31/2017 23:34:38	R1710054-001SD	Al (394.401 nm)	1.9245 (ppm)	1.81	1.9245 (ppm)	24755.6387
10/31/2017 23:34:38	R1710054-001SD	As (188.980 nm)	0.0401 (ppm)	5.27	0.0401 (ppm)	34.3572
10/31/2017 23:34:38	R1710054-001SD	B (249.772 nm)	1.0089 (ppm)	1.71	1.0089 (ppm)	27967.8050
10/31/2017 23:34:38	R1710054-001SD	Ba (230.424 nm)	2.0840 (ppm)	1.49	2.0840 (ppm)	70065.0284
10/31/2017 23:34:38	R1710054-001SD	Be (313.107 nm)	0.0501 (ppm)	1.66	0.0501 (ppm)	73523.6295
10/31/2017 23:34:38	R1710054-001SD	Ca (227.547 nm)	36.7320 (ppm)	1.68	36.7320 (ppm)	2072.2550
10/31/2017 23:34:38	R1710054-001SD	Cd (214.439 nm)	0.0504 (ppm)	1.76	0.0504 (ppm)	1104.3983
10/31/2017 23:34:38	R1710054-001SD	Co (230.786 nm)	0.5020 (ppm)	1.53	0.5020 (ppm)	4953.0518
10/31/2017 23:34:38	R1710054-001SD	Cr (267.716 nm)	0.1966 (ppm)	1.68	0.1966 (ppm)	9735.0673
10/31/2017 23:34:38	R1710054-001SD	Cu (327.395 nm)	0.2398 (ppm)	2.05	0.2398 (ppm)	14898.1448
10/31/2017 23:34:38	R1710054-001SD	Fe (234.350 nm)	1.0305 (ppm)	1.58	1.0305 (ppm)	11522.0313
10/31/2017 23:34:38	R1710054-001SD	K (766.491 nm)	23.5521 (ppm)	1.84	23.5521 (ppm)	71054.4315
10/31/2017 23:34:38	R1710054-001SD	Mg (279.078 nm)	21.2107 (ppm)	1.64	21.2107 (ppm)	40929.3501
10/31/2017 23:34:38	R1710054-001SD	Mn (257.610 nm)	0.4964 (ppm)	1.51	0.4964 (ppm)	155602.4119
10/31/2017 23:34:38	R1710054-001SD	Mo (202.032 nm)	0.4787 (ppm)	1.72	0.4787 (ppm)	4886.8053
10/31/2017 23:34:38	R1710054-001SD	Na (588.995 nm)	63.6784 o (ppm)	1.89	63.6784 (ppm)	2890298.7150
10/31/2017 23:34:38	R1710054-001SD	Ni (230.299 nm)	0.4940 (ppm)	1.55	0.4940 (ppm)	3307.4038
10/31/2017 23:34:38	R1710054-001SD	Pb (220.353 nm)	0.5007 (ppm)	1.63	0.5007 (ppm)	1074.7296
10/31/2017 23:34:38	R1710054-001SD	Sb (217.582 nm)	0.5008 (ppm)	2.05	0.5008 (ppm)	685.6808
10/31/2017 23:34:38	R1710054-001SD	Se (196.026 nm)	1.0805 (ppm)	2.30	1.0805 (ppm)	926.1437
10/31/2017 23:34:38	R1710054-001SD	Sn (189.925 nm)	5.0788 (ppm)	0.77	5.0788 (ppm)	6150.0374
10/31/2017 23:34:38	R1710054-001SD	Sr (216.596 nm)	2.3831 (ppm)	1.27	2.3831 (ppm)	33836.5624
10/31/2017 23:34:38	R1710054-001SD	Ti (336.122 nm)	0.4860 (ppm)	1.69	0.4860 (ppm)	101199.3294
10/31/2017 23:34:38	R1710054-001SD	Tl (351.923 nm)	1.8988 (ppm)	2.05	1.8988 (ppm)	5222.6798
10/31/2017 23:34:38	R1710054-001SD	V (292.401 nm)	0.4965 (ppm)	1.66	0.4965 (ppm)	17657.5869
10/31/2017 23:34:38	R1710054-001SD	Y (360.074 nm)	0.96 (Ratio)	1.36	0.96 (Ratio)	821003.56
10/31/2017 23:34:38	R1710054-001SD	Y_R (360.074 nm)	0.96 (Ratio)	1.35	0.96 (Ratio)	821484.09
10/31/2017 23:34:38	R1710054-001SD	Zn (213.857 nm)	0.5020 (ppm)	1.01	0.5020 (ppm)	14015.8791
10/31/2017 23:37:57	R1710054-001A	Ag (328.068 nm)	0.0468 (ppm)	0.49	0.0468 (ppm)	3243.6680
10/31/2017 23:37:57	R1710054-001A	Al (394.401 nm)	1.8511 (ppm)	0.61	1.8511 (ppm)	23815.6114
10/31/2017 23:37:57	R1710054-001A	As (188.980 nm)	0.0381 (ppm)	12.68	0.0381 (ppm)	32.6197
10/31/2017 23:37:57	R1710054-001A	B (249.772 nm)	1.0966 (ppm)	0.43	1.0966 (ppm)	30396.1354
10/31/2017 23:37:57	R1710054-001A	Ba (230.424 nm)	1.9945 (ppm)	0.36	1.9945 (ppm)	67053.9366
10/31/2017 23:37:57	R1710054-001A	Be (313.107 nm)	0.0479 (ppm)	0.40	0.0479 (ppm)	70191.9233
10/31/2017 23:37:57	R1710054-001A	Ca (227.547 nm)	36.1024 (ppm)	0.60	36.1024 (ppm)	2036.8139
10/31/2017 23:37:57	R1710054-001A	Cd (214.439 nm)	0.0483 (ppm)	0.77	0.0483 (ppm)	1058.8571
10/31/2017 23:37:57	R1710054-001A	Co (230.786 nm)	0.4798 (ppm)	0.55	0.4798 (ppm)	4732.9294
10/31/2017 23:37:57	R1710054-001A	Cr (267.716 nm)	0.1881 (ppm)	0.41	0.1881 (ppm)	9314.9733

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:37:57	R1710054-001A	Cu (327.395 nm)	0.2287 (ppm)	0.52	0.2287 (ppm)	14211.1489
10/31/2017 23:37:57	R1710054-001A	Fe (234.350 nm)	0.9860 (ppm)	0.36	0.9860 (ppm)	11024.2945
10/31/2017 23:37:57	R1710054-001A	K (766.491 nm)	22.5535 (ppm)	0.53	22.5535 (ppm)	68041.4446
10/31/2017 23:37:57	R1710054-001A	Mg (279.078 nm)	20.8845 (ppm)	0.45	20.8845 (ppm)	40299.7271
10/31/2017 23:37:57	R1710054-001A	Mn (257.610 nm)	0.4891 (ppm)	0.94	0.4891 (ppm)	153315.0866
10/31/2017 23:37:57	R1710054-001A	Mo (202.032 nm)	0.4601 (ppm)	0.46	0.4601 (ppm)	4697.4506
10/31/2017 23:37:57	R1710054-001A	Na (588.995 nm)	62.2395 o (ppm)	0.70	62.2395 (ppm)	2824862.1460
10/31/2017 23:37:57	R1710054-001A	Ni (230.299 nm)	0.4716 (ppm)	0.30	0.4716 (ppm)	3156.2356
10/31/2017 23:37:57	R1710054-001A	Pb (220.353 nm)	0.4759 (ppm)	1.04	0.4759 (ppm)	1021.7851
10/31/2017 23:37:57	R1710054-001A	Sb (217.582 nm)	0.4808 (ppm)	0.79	0.4808 (ppm)	658.3462
10/31/2017 23:37:57	R1710054-001A	Se (196.026 nm)	1.1307 o (ppm)	0.31	1.1307 (ppm)	969.1214
10/31/2017 23:37:57	R1710054-001A	Sn (189.925 nm)	4.8592 (ppm)	0.62	4.8592 (ppm)	5884.1176
10/31/2017 23:37:57	R1710054-001A	Sr (216.596 nm)	2.3759 (ppm)	0.57	2.3759 (ppm)	33733.8672
10/31/2017 23:37:57	R1710054-001A	Ti (336.122 nm)	0.4666 (ppm)	0.51	0.4666 (ppm)	97146.7068
10/31/2017 23:37:57	R1710054-001A	Tl (351.923 nm)	1.8095 (ppm)	0.58	1.8095 (ppm)	4977.5599
10/31/2017 23:37:57	R1710054-001A	V (292.401 nm)	0.4739 (ppm)	0.46	0.4739 (ppm)	16859.7159
10/31/2017 23:37:57	R1710054-001A	Y (360.074 nm)	0.96 (Ratio)	0.98	0.96 (Ratio)	820202.32
10/31/2017 23:37:57	R1710054-001A	Y_R (360.074 nm)	0.96 (Ratio)	0.97	0.96 (Ratio)	820651.50
10/31/2017 23:37:57	R1710054-001A	Zn (213.857 nm)	0.4819 (ppm)	0.48	0.4819 (ppm)	13455.1799
10/31/2017 23:41:15	R1710054-001L	Ag (328.068 nm)	-0.0001 u (ppm)	65.05	-0.0001 (ppm)	-113.8551
10/31/2017 23:41:15	R1710054-001L	Al (394.401 nm)	0.0070 (ppm)	27.04	0.0070 (ppm)	215.1399
10/31/2017 23:41:15	R1710054-001L	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-1.8107
10/31/2017 23:41:15	R1710054-001L	B (249.772 nm)	0.0097 (ppm)	9.20	0.0097 (ppm)	302.2134
10/31/2017 23:41:15	R1710054-001L	Ba (230.424 nm)	0.0154 (ppm)	6.69	0.0154 (ppm)	519.8952
10/31/2017 23:41:15	R1710054-001L	Be (313.107 nm)	0.0000 (ppm)	39.10	0.0000 (ppm)	-459.6055
10/31/2017 23:41:15	R1710054-001L	Ca (227.547 nm)	6.5662 (ppm)	0.52	6.5662 (ppm)	374.0625
10/31/2017 23:41:15	R1710054-001L	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.2996
10/31/2017 23:41:15	R1710054-001L	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.5616
10/31/2017 23:41:15	R1710054-001L	Cr (267.716 nm)	0.0002 (ppm)	22.84	0.0002 (ppm)	9.2522
10/31/2017 23:41:15	R1710054-001L	Cu (327.395 nm)	0.0003 (ppm)	36.95	0.0003 (ppm)	31.2919
10/31/2017 23:41:15	R1710054-001L	Fe (234.350 nm)	0.0151 (ppm)	6.27	0.0151 (ppm)	180.9508
10/31/2017 23:41:15	R1710054-001L	K (766.491 nm)	0.7477 (ppm)	1.99	0.7477 (ppm)	2247.2822
10/31/2017 23:41:15	R1710054-001L	Mg (279.078 nm)	3.7702 (ppm)	0.32	3.7702 (ppm)	7274.6046
10/31/2017 23:41:15	R1710054-001L	Mn (257.610 nm)	0.0045 (ppm)	9.92	0.0045 (ppm)	1426.1791
10/31/2017 23:41:15	R1710054-001L	Mo (202.032 nm)	0.0010 (ppm)	14.23	0.0010 (ppm)	17.0179
10/31/2017 23:41:15	R1710054-001L	Na (588.995 nm)	9.0020 (ppm)	0.66	9.0020 (ppm)	403904.5836
10/31/2017 23:41:15	R1710054-001L	Ni (230.299 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-19.7546
10/31/2017 23:41:15	R1710054-001L	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	3.6154
10/31/2017 23:41:15	R1710054-001L	Sb (217.582 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.8048
10/31/2017 23:41:15	R1710054-001L	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	1.1835
10/31/2017 23:41:15	R1710054-001L	Sn (189.925 nm)	0.0039 (ppm)	44.36	0.0039 (ppm)	4.5927
10/31/2017 23:41:15	R1710054-001L	Sr (216.596 nm)	0.0780 (ppm)	1.14	0.0780 (ppm)	1107.4413
10/31/2017 23:41:15	R1710054-001L	Ti (336.122 nm)	0.0007 (ppm)	27.43	0.0007 (ppm)	-325.6204
10/31/2017 23:41:15	R1710054-001L	Tl (351.923 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	11.4015
10/31/2017 23:41:15	R1710054-001L	V (292.401 nm)	0.0002 (ppm)	42.17	0.0002 (ppm)	116.1252
10/31/2017 23:41:15	R1710054-001L	Y (360.074 nm)	1.01 (Ratio)	0.79	1.01 (Ratio)	858440.34
10/31/2017 23:41:15	R1710054-001L	Y_R (360.074 nm)	1.01 (Ratio)	0.79	1.01 (Ratio)	858908.12
10/31/2017 23:41:15	R1710054-001L	Zn (213.857 nm)	0.0028 (ppm)	3.05	0.0028 (ppm)	52.4995
10/31/2017 23:44:35	R1710054-002	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-101.7748
10/31/2017 23:44:35	R1710054-002	Al (394.401 nm)	0.0378 (ppm)	1.43	0.0378 (ppm)	609.5133
10/31/2017 23:44:35	R1710054-002	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.7468

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:44:35	R1710054-002	B (249.772 nm)	0.0634 (ppm)	0.59	0.0634 (ppm)	1789.4881
10/31/2017 23:44:35	R1710054-002	Ba (230.424 nm)	0.0362 (ppm)	0.92	0.0362 (ppm)	1217.6532
10/31/2017 23:44:35	R1710054-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-529.5395
10/31/2017 23:44:35	R1710054-002	Ca (227.547 nm)	249.3209 o (ppm)	0.38	249.3209 (ppm)	14040.0349
10/31/2017 23:44:35	R1710054-002	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.4405
10/31/2017 23:44:35	R1710054-002	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.8797
10/31/2017 23:44:35	R1710054-002	Cr (267.716 nm)	-0.0003 u (ppm)	26.84	-0.0003 (ppm)	-13.7085
10/31/2017 23:44:35	R1710054-002	Cu (327.395 nm)	0.0002 (ppm)	67.70	0.0002 (ppm)	28.2564
10/31/2017 23:44:35	R1710054-002	Fe (234.350 nm)	0.0072 (ppm)	2.53	0.0072 (ppm)	92.0296
10/31/2017 23:44:35	R1710054-002	K (766.491 nm)	2.4787 (ppm)	0.70	2.4787 (ppm)	7469.9821
10/31/2017 23:44:35	R1710054-002	Mg (279.078 nm)	36.1702 (ppm)	0.29	36.1702 (ppm)	69796.4383
10/31/2017 23:44:35	R1710054-002	Mn (257.610 nm)	0.0048 (ppm)	28.62	0.0048 (ppm)	1506.5598
10/31/2017 23:44:35	R1710054-002	Mo (202.032 nm)	0.0013 (ppm)	13.41	0.0013 (ppm)	20.4166
10/31/2017 23:44:35	R1710054-002	Na (588.995 nm)	59.9628 o (ppm)	0.52	59.9628 (ppm)	2721331.5842
10/31/2017 23:44:35	R1710054-002	Ni (230.299 nm)	-0.0015 u (ppm)	29.92	-0.0015 (ppm)	-30.3840
10/31/2017 23:44:35	R1710054-002	Pb (220.353 nm)	-0.0013 u (ppm)	15.03	-0.0013 (ppm)	2.3022
10/31/2017 23:44:35	R1710054-002	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	0.2441
10/31/2017 23:44:35	R1710054-002	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-0.3333
10/31/2017 23:44:35	R1710054-002	Sn (189.925 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	1.2151
10/31/2017 23:44:35	R1710054-002	Sr (216.596 nm)	3.2546 (ppm)	0.08	3.2546 (ppm)	46210.0821
10/31/2017 23:44:35	R1710054-002	Ti (336.122 nm)	0.0021 (ppm)	2.53	0.0021 (ppm)	-44.8978
10/31/2017 23:44:35	R1710054-002	Tl (351.923 nm)	0.0047 (ppm)	55.43	0.0047 (ppm)	20.2775
10/31/2017 23:44:35	R1710054-002	V (292.401 nm)	0.0004 (ppm)	19.02	0.0004 (ppm)	123.3439
10/31/2017 23:44:35	R1710054-002	Y (360.074 nm)	0.92 (Ratio)	0.23	0.92 (Ratio)	786441.30
10/31/2017 23:44:35	R1710054-002	Y_R (360.074 nm)	0.92 (Ratio)	0.23	0.92 (Ratio)	786843.44
10/31/2017 23:44:35	R1710054-002	Zn (213.857 nm)	0.0034 (ppm)	2.32	0.0034 (ppm)	67.2610
10/31/2017 23:47:53	R1710054-004	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-102.6580
10/31/2017 23:47:53	R1710054-004	Al (394.401 nm)	0.1957 (ppm)	0.50	0.1957 (ppm)	2630.5907
10/31/2017 23:47:53	R1710054-004	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.5467
10/31/2017 23:47:53	R1710054-004	B (249.772 nm)	0.0529 (ppm)	0.24	0.0529 (ppm)	1497.9008
10/31/2017 23:47:53	R1710054-004	Ba (230.424 nm)	0.2077 (ppm)	0.60	0.2077 (ppm)	6985.2330
10/31/2017 23:47:53	R1710054-004	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-526.3444
10/31/2017 23:47:53	R1710054-004	Ca (227.547 nm)	175.0528 o (ppm)	0.63	175.0528 (ppm)	9859.0821
10/31/2017 23:47:53	R1710054-004	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	12.2760
10/31/2017 23:47:53	R1710054-004	Co (230.786 nm)	0.0041 (ppm)	14.98	0.0041 (ppm)	36.6441
10/31/2017 23:47:53	R1710054-004	Cr (267.716 nm)	-0.0002 u (ppm)	46.90	-0.0002 (ppm)	-12.7759
10/31/2017 23:47:53	R1710054-004	Cu (327.395 nm)	0.0024 (ppm)	6.15	0.0024 (ppm)	162.3126
10/31/2017 23:47:53	R1710054-004	Fe (234.350 nm)	0.2141 (ppm)	0.84	0.2141 (ppm)	2403.2856
10/31/2017 23:47:53	R1710054-004	K (766.491 nm)	4.8485 (ppm)	0.63	4.8485 (ppm)	14620.3613
10/31/2017 23:47:53	R1710054-004	Mg (279.078 nm)	28.6555 (ppm)	0.44	28.6555 (ppm)	55295.4783
10/31/2017 23:47:53	R1710054-004	Mn (257.610 nm)	0.7676 (ppm)	0.24	0.7676 (ppm)	240593.9478
10/31/2017 23:47:53	R1710054-004	Mo (202.032 nm)	0.0005 (ppm)	65.74	0.0005 (ppm)	11.9293
10/31/2017 23:47:53	R1710054-004	Na (588.995 nm)	42.3089 (ppm)	0.42	42.3089 (ppm)	1918524.5498
10/31/2017 23:47:53	R1710054-004	Ni (230.299 nm)	0.0064 (ppm)	3.13	0.0064 (ppm)	22.7404
10/31/2017 23:47:53	R1710054-004	Pb (220.353 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	2.2771
10/31/2017 23:47:53	R1710054-004	Sb (217.582 nm)	-0.0022 u (ppm)	58.16	-0.0022 (ppm)	-2.2179
10/31/2017 23:47:53	R1710054-004	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.6515
10/31/2017 23:47:53	R1710054-004	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-0.9972
10/31/2017 23:47:53	R1710054-004	Sr (216.596 nm)	9.8646 o (ppm)	1.14	9.8646 (ppm)	140063.4755
10/31/2017 23:47:53	R1710054-004	Ti (336.122 nm)	0.0055 (ppm)	4.53	0.0055 (ppm)	659.8897
10/31/2017 23:47:53	R1710054-004	Tl (351.923 nm)	0.0043 (ppm)	39.07	0.0043 (ppm)	19.2155

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:47:53	R1710054-004	V (292.401 nm)	0.0007 (ppm)	2.66	0.0007 (ppm)	133.0140
10/31/2017 23:47:53	R1710054-004	Y (360.074 nm)	0.92 (Ratio)	0.79	0.92 (Ratio)	784190.59
10/31/2017 23:47:53	R1710054-004	Y_R (360.074 nm)	0.92 (Ratio)	0.79	0.92 (Ratio)	784567.56
10/31/2017 23:47:53	R1710054-004	Zn (213.857 nm)	0.0041 (ppm)	1.42	0.0041 (ppm)	87.6779
10/31/2017 23:51:13	R1710054-006	Ag (328.068 nm)	0.0001 (ppm)	62.19	0.0001 (ppm)	-94.9271
10/31/2017 23:51:13	R1710054-006	Al (394.401 nm)	0.1735 (ppm)	0.83	0.1735 (ppm)	2346.1375
10/31/2017 23:51:13	R1710054-006	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-0.4843
10/31/2017 23:51:13	R1710054-006	B (249.772 nm)	0.1565 (ppm)	0.20	0.1565 (ppm)	4367.1164
10/31/2017 23:51:13	R1710054-006	Ba (230.424 nm)	0.3337 (ppm)	0.49	0.3337 (ppm)	11221.6325
10/31/2017 23:51:13	R1710054-006	Be (313.107 nm)	0.0000 (ppm)	68.34	0.0000 (ppm)	-549.3239
10/31/2017 23:51:13	R1710054-006	Ca (227.547 nm)	246.9227 o (ppm)	0.20	246.9227 (ppm)	13905.0297
10/31/2017 23:51:13	R1710054-006	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	15.0878
10/31/2017 23:51:13	R1710054-006	Co (230.786 nm)	0.0022 (ppm)	7.09	0.0022 (ppm)	17.6759
10/31/2017 23:51:13	R1710054-006	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.4728
10/31/2017 23:51:13	R1710054-006	Cu (327.395 nm)	0.0008 (ppm)	10.02	0.0008 (ppm)	60.3672
10/31/2017 23:51:13	R1710054-006	Fe (234.350 nm)	3.6985 (ppm)	0.24	3.6985 (ppm)	41321.4267
10/31/2017 23:51:13	R1710054-006	K (766.491 nm)	7.9687 (ppm)	0.51	7.9687 (ppm)	24034.9538
10/31/2017 23:51:13	R1710054-006	Mg (279.078 nm)	50.9411 (ppm)	0.19	50.9411 (ppm)	98299.4950
10/31/2017 23:51:13	R1710054-006	Mn (257.610 nm)	0.3175 (ppm)	0.64	0.3175 (ppm)	99519.7968
10/31/2017 23:51:13	R1710054-006	Mo (202.032 nm)	0.0016 (ppm)	15.79	0.0016 (ppm)	23.4176
10/31/2017 23:51:13	R1710054-006	Na (588.995 nm)	122.0460 o (ppm)	0.53	122.0460 (ppm)	5544547.5955
10/31/2017 23:51:13	R1710054-006	Ni (230.299 nm)	0.0118 (ppm)	10.66	0.0118 (ppm)	59.0988
10/31/2017 23:51:13	R1710054-006	Pb (220.353 nm)	-0.0020 u (ppm)	57.15	-0.0020 (ppm)	0.8641
10/31/2017 23:51:13	R1710054-006	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	1.4286
10/31/2017 23:51:13	R1710054-006	Se (196.026 nm)	-0.0037 u (ppm)	> 100.00	-0.0037 (ppm)	-2.3968
10/31/2017 23:51:13	R1710054-006	Sn (189.925 nm)	-0.0028 u (ppm)	37.01	-0.0028 (ppm)	-3.4321
10/31/2017 23:51:13	R1710054-006	Sr (216.596 nm)	25.9002 o (ppm)	0.65	25.9002 (ppm)	367748.1229
10/31/2017 23:51:13	R1710054-006	Ti (336.122 nm)	0.0050 (ppm)	6.40	0.0050 (ppm)	565.7172
10/31/2017 23:51:13	R1710054-006	Tl (351.923 nm)	0.0075 (ppm)	8.73	0.0075 (ppm)	27.9281
10/31/2017 23:51:13	R1710054-006	V (292.401 nm)	0.0009 (ppm)	37.66	0.0009 (ppm)	142.4655
10/31/2017 23:51:13	R1710054-006	Y (360.074 nm)	0.87 (Ratio)	0.07	0.87 (Ratio)	742097.81
10/31/2017 23:51:13	R1710054-006	Y_R (360.074 nm)	0.87 (Ratio)	0.07	0.87 (Ratio)	742374.17
10/31/2017 23:51:13	R1710054-006	Zn (213.857 nm)	0.0033 (ppm)	2.78	0.0033 (ppm)	65.4871
10/31/2017 23:54:32	Continuing Calibration Verification	Ag (328.068 nm)	0.4935 (ppm)	0.31	0.4935 (ppm)	35157.0893
10/31/2017 23:54:32	Continuing Calibration Verification	Al (394.401 nm)	9.5301 (ppm)	0.46	9.5301 (ppm)	122089.6685
10/31/2017 23:54:32	Continuing Calibration Verification	As (188.980 nm)	0.9736 (ppm)	1.24	0.9736 (ppm)	868.8812
10/31/2017 23:54:32	Continuing Calibration Verification	B (249.772 nm)	2.4395 (ppm)	0.26	2.4395 (ppm)	67576.2339
10/31/2017 23:54:32	Continuing Calibration Verification	Ba (230.424 nm)	10.4566 (ppm)	0.14	10.4566 (ppm)	351542.0247
10/31/2017 23:54:32	Continuing Calibration Verification	Be (313.107 nm)	0.2556 (ppm)	0.37	0.2556 (ppm)	377026.5832
10/31/2017 23:54:32	Continuing Calibration Verification	Ca (227.547 nm)	24.2811 (ppm)	0.76	24.2811 (ppm)	1371.3290
10/31/2017 23:54:32	Continuing Calibration Verification	Cd (214.439 nm)	0.5117 (ppm)	0.21	0.5117 (ppm)	11092.0605
10/31/2017 23:54:32	Continuing Calibration Verification	Co (230.786 nm)	2.6355 (ppm)	0.30	2.6355 (ppm)	26015.9023
10/31/2017 23:54:32	Continuing Calibration Verification	Cr (267.716 nm)	0.5164 (ppm)	0.20	0.5164 (ppm)	25567.4759
10/31/2017 23:54:32	Continuing Calibration Verification	Cu (327.395 nm)	1.1937 (ppm)	0.46	1.1937 (ppm)	74124.4909
10/31/2017 23:54:32	Continuing Calibration Verification	Fe (234.350 nm)	4.9259 (ppm)	0.30	4.9259 (ppm)	55030.6955
10/31/2017 23:54:32	Continuing Calibration Verification	K (766.491 nm)	24.5931 (ppm)	0.52	24.5931 (ppm)	74195.4422
10/31/2017 23:54:32	Continuing Calibration Verification	Mg (279.078 nm)	25.6294 (ppm)	0.28	25.6294 (ppm)	49456.0534
10/31/2017 23:54:32	Continuing Calibration Verification	Mn (257.610 nm)	0.7658 (ppm)	0.21	0.7658 (ppm)	240028.6919
10/31/2017 23:54:32	Continuing Calibration Verification	Mo (202.032 nm)	2.4459 (ppm)	0.28	2.4459 (ppm)	24939.2203
10/31/2017 23:54:32	Continuing Calibration Verification	Na (588.995 nm)	24.6207 (ppm)	0.57	24.6207 (ppm)	1114160.7730
10/31/2017 23:54:32	Continuing Calibration Verification	Ni (230.299 nm)	2.0736 (ppm)	0.39	2.0736 (ppm)	13948.5300

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
10/31/2017 23:54:32	Continuing Calibration Verification	Pb (220.353 nm)	0.5073 (ppm)	0.31	0.5073 (ppm)	1088.8296
10/31/2017 23:54:32	Continuing Calibration Verification	Sb (217.582 nm)	4.9429 (ppm)	0.53	4.9429 (ppm)	6760.4536
10/31/2017 23:54:32	Continuing Calibration Verification	Se (196.026 nm)	0.5033 (ppm)	0.57	0.5033 (ppm)	431.7758
10/31/2017 23:54:32	Continuing Calibration Verification	Sn (189.925 nm)	5.2111 (ppm)	0.20	5.2111 (ppm)	6310.2188
10/31/2017 23:54:32	Continuing Calibration Verification	Sr (216.596 nm)	2.6121 (ppm)	0.22	2.6121 (ppm)	37087.8915
10/31/2017 23:54:32	Continuing Calibration Verification	Ti (336.122 nm)	2.5168 (ppm)	0.38	2.5168 (ppm)	526122.8215
10/31/2017 23:54:32	Continuing Calibration Verification	Tl (351.923 nm)	0.9889 (ppm)	0.29	0.9889 (ppm)	2723.4042
10/31/2017 23:54:32	Continuing Calibration Verification	V (292.401 nm)	2.5481 (ppm)	0.33	2.5481 (ppm)	90174.4776
10/31/2017 23:54:32	Continuing Calibration Verification	Y (360.074 nm)	0.94 (Ratio)	0.73	0.94 (Ratio)	804370.00
10/31/2017 23:54:32	Continuing Calibration Verification	Y_R (360.074 nm)	0.94 (Ratio)	0.73	0.94 (Ratio)	804659.15
10/31/2017 23:54:32	Continuing Calibration Verification	Zn (213.857 nm)	1.0264 (ppm)	0.32	1.0264 (ppm)	28688.5605
10/31/2017 23:57:50	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	92.58	0.0001 (ppm)	-94.8327
10/31/2017 23:57:50	Continuing Calibration Blank	Al (394.401 nm)	0.0045 (ppm)	33.99	0.0045 (ppm)	183.8829
10/31/2017 23:57:50	Continuing Calibration Blank	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-1.0493
10/31/2017 23:57:50	Continuing Calibration Blank	B (249.772 nm)	0.0046 (ppm)	29.16	0.0046 (ppm)	161.0690
10/31/2017 23:57:50	Continuing Calibration Blank	Ba (230.424 nm)	0.0067 (ppm)	46.41	0.0067 (ppm)	227.8337
10/31/2017 23:57:50	Continuing Calibration Blank	Be (313.107 nm)	0.0002 (ppm)	30.16	0.0002 (ppm)	-301.0083
10/31/2017 23:57:50	Continuing Calibration Blank	Ca (227.547 nm)	0.0840 (ppm)	67.63	0.0840 (ppm)	9.1431
10/31/2017 23:57:50	Continuing Calibration Blank	Cd (214.439 nm)	0.0004 (ppm)	30.53	0.0004 (ppm)	22.4715
10/31/2017 23:57:50	Continuing Calibration Blank	Co (230.786 nm)	0.0016 (ppm)	27.65	0.0016 (ppm)	12.3591
10/31/2017 23:57:50	Continuing Calibration Blank	Cr (267.716 nm)	0.0003 (ppm)	21.86	0.0003 (ppm)	15.0797
10/31/2017 23:57:50	Continuing Calibration Blank	Cu (327.395 nm)	0.0008 (ppm)	49.70	0.0008 (ppm)	61.9880
10/31/2017 23:57:50	Continuing Calibration Blank	Fe (234.350 nm)	0.0034 (ppm)	35.56	0.0034 (ppm)	50.3457
10/31/2017 23:57:50	Continuing Calibration Blank	K (766.491 nm)	0.0317 (ppm)	31.97	0.0317 (ppm)	86.7949
10/31/2017 23:57:50	Continuing Calibration Blank	Mg (279.078 nm)	0.0132 (ppm)	39.03	0.0132 (ppm)	24.7244
10/31/2017 23:57:50	Continuing Calibration Blank	Mn (257.610 nm)	0.0024 (ppm)	16.74	0.0024 (ppm)	767.5780
10/31/2017 23:57:50	Continuing Calibration Blank	Mo (202.032 nm)	0.0033 (ppm)	16.32	0.0033 (ppm)	41.2232
10/31/2017 23:57:50	Continuing Calibration Blank	Na (588.995 nm)	-0.0032 u (ppm)	> 100.00	-0.0032 (ppm)	-5605.9982
10/31/2017 23:57:50	Continuing Calibration Blank	Ni (230.299 nm)	0.0011 (ppm)	31.76	0.0011 (ppm)	-13.0001
10/31/2017 23:57:50	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	5.5293
10/31/2017 23:57:50	Continuing Calibration Blank	Sb (217.582 nm)	0.0050 (ppm)	43.26	0.0050 (ppm)	7.6348
10/31/2017 23:57:50	Continuing Calibration Blank	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	0.3785
10/31/2017 23:57:50	Continuing Calibration Blank	Sn (189.925 nm)	0.0030 (ppm)	59.27	0.0030 (ppm)	3.5836
10/31/2017 23:57:50	Continuing Calibration Blank	Sr (216.596 nm)	0.0015 (ppm)	48.31	0.0015 (ppm)	20.3290
10/31/2017 23:57:50	Continuing Calibration Blank	Ti (336.122 nm)	0.0022 (ppm)	25.22	0.0022 (ppm)	-24.0030
10/31/2017 23:57:50	Continuing Calibration Blank	Tl (351.923 nm)	0.0019 (ppm)	> 100.00	0.0019 (ppm)	12.5348
10/31/2017 23:57:50	Continuing Calibration Blank	V (292.401 nm)	0.0014 (ppm)	41.40	0.0014 (ppm)	157.8279
10/31/2017 23:57:50	Continuing Calibration Blank	Y (360.074 nm)	0.98 (Ratio)	0.60	0.98 (Ratio)	840353.32
10/31/2017 23:57:50	Continuing Calibration Blank	Y_R (360.074 nm)	0.98 (Ratio)	0.60	0.98 (Ratio)	840711.75
10/31/2017 23:57:50	Continuing Calibration Blank	Zn (213.857 nm)	0.0006 (ppm)	18.89	0.0006 (ppm)	-10.9536
11/1/2017 00:01:09	R1710054-008	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-100.1947
11/1/2017 00:01:09	R1710054-008	Al (394.401 nm)	0.4877 (ppm)	0.36	0.4877 (ppm)	6367.7262
11/1/2017 00:01:09	R1710054-008	As (188.980 nm)	-0.0013 u (ppm)	47.54	-0.0013 (ppm)	-2.6233
11/1/2017 00:01:09	R1710054-008	B (249.772 nm)	0.1401 (ppm)	0.79	0.1401 (ppm)	3911.6459
11/1/2017 00:01:09	R1710054-008	Ba (230.424 nm)	0.1029 (ppm)	1.36	0.1029 (ppm)	3462.5851
11/1/2017 00:01:09	R1710054-008	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-517.6560
11/1/2017 00:01:09	R1710054-008	Ca (227.547 nm)	293.7708 o (ppm)	0.63	293.7708 (ppm)	16542.3598
11/1/2017 00:01:09	R1710054-008	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.1105
11/1/2017 00:01:09	R1710054-008	Co (230.786 nm)	0.0009 (ppm)	69.74	0.0009 (ppm)	4.9310
11/1/2017 00:01:09	R1710054-008	Cr (267.716 nm)	0.0004 (ppm)	29.92	0.0004 (ppm)	20.9176
11/1/2017 00:01:09	R1710054-008	Cu (327.395 nm)	0.0024 (ppm)	12.01	0.0024 (ppm)	161.2574

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:01:09	R1710054-008	Fe (234.350 nm)	0.3756 (ppm)	1.04	0.3756 (ppm)	4206.6631
11/1/2017 00:01:09	R1710054-008	K (766.491 nm)	21.3274 (ppm)	0.35	21.3274 (ppm)	64341.8739
11/1/2017 00:01:09	R1710054-008	Mg (279.078 nm)	84.1431 o (ppm)	0.95	84.1431 (ppm)	162368.8907
11/1/2017 00:01:09	R1710054-008	Mn (257.610 nm)	0.0531 (ppm)	2.84	0.0531 (ppm)	16662.4400
11/1/2017 00:01:09	R1710054-008	Mo (202.032 nm)	0.0036 (ppm)	3.64	0.0036 (ppm)	43.4372
11/1/2017 00:01:09	R1710054-008	Na (588.995 nm)	86.7073 o (ppm)	0.35	86.7073 (ppm)	3937531.8277
11/1/2017 00:01:09	R1710054-008	Ni (230.299 nm)	-0.0002 u (ppm)	27.68	-0.0002 (ppm)	-22.2469
11/1/2017 00:01:09	R1710054-008	Pb (220.353 nm)	-0.0026 u (ppm)	18.86	-0.0026 (ppm)	-0.5566
11/1/2017 00:01:09	R1710054-008	Sb (217.582 nm)	-0.0021 u (ppm)	74.96	-0.0021 (ppm)	-2.0498
11/1/2017 00:01:09	R1710054-008	Se (196.026 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	1.4352
11/1/2017 00:01:09	R1710054-008	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.0293
11/1/2017 00:01:09	R1710054-008	Sr (216.596 nm)	28.5781 o (ppm)	1.28	28.5781 (ppm)	405770.8223
11/1/2017 00:01:09	R1710054-008	Ti (336.122 nm)	0.0132 (ppm)	0.72	0.0132 (ppm)	2282.3329
11/1/2017 00:01:09	R1710054-008	Tl (351.923 nm)	0.0081 (ppm)	83.09	0.0081 (ppm)	29.5511
11/1/2017 00:01:09	R1710054-008	V (292.401 nm)	0.0012 (ppm)	11.22	0.0012 (ppm)	151.5186
11/1/2017 00:01:09	R1710054-008	Y (360.074 nm)	0.87 (Ratio)	1.01	0.87 (Ratio)	746125.41
11/1/2017 00:01:09	R1710054-008	Y_R (360.074 nm)	0.87 (Ratio)	1.01	0.87 (Ratio)	746298.60
11/1/2017 00:01:09	R1710054-008	Zn (213.857 nm)	0.0057 (ppm)	1.62	0.0057 (ppm)	132.5214
11/1/2017 00:04:28	R1710054-010	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-103.4006
11/1/2017 00:04:28	R1710054-010	Al (394.401 nm)	0.1915 (ppm)	1.44	0.1915 (ppm)	2577.2379
11/1/2017 00:04:28	R1710054-010	As (188.980 nm)	0.0012 (ppm)	69.29	0.0012 (ppm)	-0.3828
11/1/2017 00:04:28	R1710054-010	B (249.772 nm)	0.0868 (ppm)	1.02	0.0868 (ppm)	2436.6346
11/1/2017 00:04:28	R1710054-010	Ba (230.424 nm)	0.3005 (ppm)	1.21	0.3005 (ppm)	10103.2059
11/1/2017 00:04:28	R1710054-010	Be (313.107 nm)	0.0000 (ppm)	57.50	0.0000 (ppm)	-505.1940
11/1/2017 00:04:28	R1710054-010	Ca (227.547 nm)	174.9293 o (ppm)	1.21	174.9293 (ppm)	9852.1289
11/1/2017 00:04:28	R1710054-010	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	13.9519
11/1/2017 00:04:28	R1710054-010	Co (230.786 nm)	0.0036 (ppm)	0.51	0.0036 (ppm)	31.9191
11/1/2017 00:04:28	R1710054-010	Cr (267.716 nm)	0.0004 (ppm)	12.66	0.0004 (ppm)	19.0306
11/1/2017 00:04:28	R1710054-010	Cu (327.395 nm)	0.0058 (ppm)	1.89	0.0058 (ppm)	372.4943
11/1/2017 00:04:28	R1710054-010	Fe (234.350 nm)	0.3019 (ppm)	1.14	0.3019 (ppm)	3384.0433
11/1/2017 00:04:28	R1710054-010	K (766.491 nm)	6.6798 (ppm)	1.13	6.6798 (ppm)	20145.8794
11/1/2017 00:04:28	R1710054-010	Mg (279.078 nm)	32.0900 (ppm)	0.87	32.0900 (ppm)	61922.9453
11/1/2017 00:04:28	R1710054-010	Mn (257.610 nm)	0.1082 (ppm)	1.04	0.1082 (ppm)	33933.8749
11/1/2017 00:04:28	R1710054-010	Mo (202.032 nm)	0.0017 (ppm)	22.45	0.0017 (ppm)	24.7610
11/1/2017 00:04:28	R1710054-010	Na (588.995 nm)	68.8243 o (ppm)	1.19	68.8243 (ppm)	3124304.2081
11/1/2017 00:04:28	R1710054-010	Ni (230.299 nm)	0.0066 (ppm)	5.13	0.0066 (ppm)	24.1308
11/1/2017 00:04:28	R1710054-010	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	3.8184
11/1/2017 00:04:28	R1710054-010	Sb (217.582 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	0.0526
11/1/2017 00:04:28	R1710054-010	Se (196.026 nm)	-0.0024 u (ppm)	34.09	-0.0024 (ppm)	-1.3186
11/1/2017 00:04:28	R1710054-010	Sn (189.925 nm)	-0.0016 u (ppm)	62.66	-0.0016 (ppm)	-2.0410
11/1/2017 00:04:28	R1710054-010	Sr (216.596 nm)	19.3374 o (ppm)	0.15	19.3374 (ppm)	274564.3488
11/1/2017 00:04:28	R1710054-010	Ti (336.122 nm)	0.0049 (ppm)	1.07	0.0049 (ppm)	553.9025
11/1/2017 00:04:28	R1710054-010	Tl (351.923 nm)	0.0035 u (ppm)	> 100.00	0.0035 (ppm)	16.8134
11/1/2017 00:04:28	R1710054-010	V (292.401 nm)	0.0007 (ppm)	16.43	0.0007 (ppm)	131.9699
11/1/2017 00:04:28	R1710054-010	Y (360.074 nm)	0.92 (Ratio)	1.24	0.92 (Ratio)	783581.17
11/1/2017 00:04:28	R1710054-010	Y_R (360.074 nm)	0.92 (Ratio)	1.24	0.92 (Ratio)	783755.74
11/1/2017 00:04:28	R1710054-010	Zn (213.857 nm)	0.0082 (ppm)	1.37	0.0082 (ppm)	201.8688
11/1/2017 00:07:46	R1710054-012	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-101.9649
11/1/2017 00:07:46	R1710054-012	Al (394.401 nm)	2.8629 (ppm)	1.13	2.8629 (ppm)	36764.3823
11/1/2017 00:07:46	R1710054-012	As (188.980 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-0.3734
11/1/2017 00:07:46	R1710054-012	B (249.772 nm)	0.1371 (ppm)	0.94	0.1371 (ppm)	3828.2850

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:07:46	R1710054-012	Ba (230.424 nm)	0.0803 (ppm)	0.56	0.0803 (ppm)	2702.1904
11/1/2017 00:07:46	R1710054-012	Be (313.107 nm)	0.0001 (ppm)	11.20	0.0001 (ppm)	-377.6810
11/1/2017 00:07:46	R1710054-012	Ca (227.547 nm)	391.4117 o (ppm)	0.99	391.4117 (ppm)	22039.0962
11/1/2017 00:07:46	R1710054-012	Cd (214.439 nm)	0.0001 (ppm)	80.59	0.0001 (ppm)	16.2594
11/1/2017 00:07:46	R1710054-012	Co (230.786 nm)	0.0008 (ppm)	15.46	0.0008 (ppm)	4.5304
11/1/2017 00:07:46	R1710054-012	Cr (267.716 nm)	0.0056 (ppm)	3.12	0.0056 (ppm)	275.3924
11/1/2017 00:07:46	R1710054-012	Cu (327.395 nm)	0.0141 (ppm)	1.54	0.0141 (ppm)	890.0161
11/1/2017 00:07:46	R1710054-012	Fe (234.350 nm)	1.8219 (ppm)	0.93	1.8219 (ppm)	20360.7446
11/1/2017 00:07:46	R1710054-012	K (766.491 nm)	52.4528 (ppm)	0.84	52.4528 (ppm)	158256.0626
11/1/2017 00:07:46	R1710054-012	Mg (279.078 nm)	87.7471 o (ppm)	0.91	87.7471 (ppm)	169323.4521
11/1/2017 00:07:46	R1710054-012	Mn (257.610 nm)	0.0435 (ppm)	2.79	0.0435 (ppm)	13641.1680
11/1/2017 00:07:46	R1710054-012	Mo (202.032 nm)	0.0044 (ppm)	3.19	0.0044 (ppm)	51.8686
11/1/2017 00:07:46	R1710054-012	Na (588.995 nm)	24.7816 (ppm)	1.14	24.7816 (ppm)	1121476.1157
11/1/2017 00:07:46	R1710054-012	Ni (230.299 nm)	-0.0074 u (ppm)	27.12	-0.0074 (ppm)	-70.2503
11/1/2017 00:07:46	R1710054-012	Pb (220.353 nm)	0.0013 (ppm)	34.54	0.0013 (ppm)	7.7882
11/1/2017 00:07:46	R1710054-012	Sb (217.582 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-0.2328
11/1/2017 00:07:46	R1710054-012	Se (196.026 nm)	0.0020 (ppm)	> 100.00	0.0020 (ppm)	2.4655
11/1/2017 00:07:46	R1710054-012	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.0870
11/1/2017 00:07:46	R1710054-012	Sr (216.596 nm)	18.2731 o (ppm)	0.40	18.2731 (ppm)	259453.3353
11/1/2017 00:07:46	R1710054-012	Ti (336.122 nm)	0.0592 (ppm)	5.16	0.0592 (ppm)	11914.5118
11/1/2017 00:07:46	R1710054-012	Tl (351.923 nm)	0.0086 (ppm)	37.84	0.0086 (ppm)	30.8942
11/1/2017 00:07:46	R1710054-012	V (292.401 nm)	0.0053 (ppm)	2.06	0.0053 (ppm)	294.8922
11/1/2017 00:07:46	R1710054-012	Y (360.074 nm)	0.89 (Ratio)	1.35	0.89 (Ratio)	757715.48
11/1/2017 00:07:46	R1710054-012	Y_R (360.074 nm)	0.89 (Ratio)	1.35	0.89 (Ratio)	757864.89
11/1/2017 00:07:46	R1710054-012	Zn (213.857 nm)	0.0096 (ppm)	1.15	0.0096 (ppm)	240.5174
11/1/2017 00:11:05	R1710054-013	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-105.5739
11/1/2017 00:11:05	R1710054-013	Al (394.401 nm)	0.2318 (ppm)	0.99	0.2318 (ppm)	3092.6453
11/1/2017 00:11:05	R1710054-013	As (188.980 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	-3.4428
11/1/2017 00:11:05	R1710054-013	B (249.772 nm)	0.0544 (ppm)	0.61	0.0544 (ppm)	1539.5443
11/1/2017 00:11:05	R1710054-013	Ba (230.424 nm)	0.2104 (ppm)	0.51	0.2104 (ppm)	7075.9815
11/1/2017 00:11:05	R1710054-013	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-520.2753
11/1/2017 00:11:05	R1710054-013	Ca (227.547 nm)	180.2544 o (ppm)	0.68	180.2544 (ppm)	10151.9067
11/1/2017 00:11:05	R1710054-013	Cd (214.439 nm)	-0.0002 u (ppm)	86.43	-0.0002 (ppm)	9.1906
11/1/2017 00:11:05	R1710054-013	Co (230.786 nm)	0.0049 (ppm)	12.27	0.0049 (ppm)	44.6525
11/1/2017 00:11:05	R1710054-013	Cr (267.716 nm)	-0.0003 u (ppm)	68.14	-0.0003 (ppm)	-14.7881
11/1/2017 00:11:05	R1710054-013	Cu (327.395 nm)	0.0022 (ppm)	8.96	0.0022 (ppm)	150.5009
11/1/2017 00:11:05	R1710054-013	Fe (234.350 nm)	0.2694 (ppm)	0.66	0.2694 (ppm)	3020.7497
11/1/2017 00:11:05	R1710054-013	K (766.491 nm)	4.9814 (ppm)	1.32	4.9814 (ppm)	15021.4396
11/1/2017 00:11:05	R1710054-013	Mg (279.078 nm)	29.3811 (ppm)	0.42	29.3811 (ppm)	56695.5448
11/1/2017 00:11:05	R1710054-013	Mn (257.610 nm)	0.8189 (ppm)	0.47	0.8189 (ppm)	256675.5258
11/1/2017 00:11:05	R1710054-013	Mo (202.032 nm)	0.0006 (ppm)	30.63	0.0006 (ppm)	12.7156
11/1/2017 00:11:05	R1710054-013	Na (588.995 nm)	43.2103 (ppm)	0.69	43.2103 (ppm)	1959518.5973
11/1/2017 00:11:05	R1710054-013	Ni (230.299 nm)	0.0067 (ppm)	12.72	0.0067 (ppm)	24.7743
11/1/2017 00:11:05	R1710054-013	Pb (220.353 nm)	-0.0013 u (ppm)	30.55	-0.0013 (ppm)	2.2673
11/1/2017 00:11:05	R1710054-013	Sb (217.582 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-0.9455
11/1/2017 00:11:05	R1710054-013	Se (196.026 nm)	0.0021 (ppm)	82.66	0.0021 (ppm)	2.5543
11/1/2017 00:11:05	R1710054-013	Sn (189.925 nm)	-0.0007 u (ppm)	21.22	-0.0007 (ppm)	-0.8851
11/1/2017 00:11:05	R1710054-013	Sr (216.596 nm)	10.0714 o (ppm)	1.01	10.0714 (ppm)	143000.2477
11/1/2017 00:11:05	R1710054-013	Ti (336.122 nm)	0.0062 (ppm)	3.13	0.0062 (ppm)	818.7207
11/1/2017 00:11:05	R1710054-013	Tl (351.923 nm)	0.0024 (ppm)	92.24	0.0024 (ppm)	13.9935
11/1/2017 00:11:05	R1710054-013	V (292.401 nm)	0.0008 (ppm)	34.13	0.0008 (ppm)	136.3082

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:11:05	R1710054-013	Y (360.074 nm)	0.92 (Ratio)	0.66	0.92 (Ratio)	785957.63
11/1/2017 00:11:05	R1710054-013	Y_R (360.074 nm)	0.92 (Ratio)	0.66	0.92 (Ratio)	786153.14
11/1/2017 00:11:05	R1710054-013	Zn (213.857 nm)	0.0054 (ppm)	1.32	0.0054 (ppm)	124.3982
11/1/2017 00:14:23	R1710113-001	Ag (328.068 nm)	0.0000 (ppm)	79.88	0.0000 (ppm)	-100.3476
11/1/2017 00:14:23	R1710113-001	Al (394.401 nm)	1.1246 (ppm)	0.20	1.1246 (ppm)	14518.7293
11/1/2017 00:14:23	R1710113-001	As (188.980 nm)	0.0036 (ppm)	71.90	0.0036 (ppm)	1.7672
11/1/2017 00:14:23	R1710113-001	B (249.772 nm)	0.3025 (ppm)	0.74	0.3025 (ppm)	8410.1949
11/1/2017 00:14:23	R1710113-001	Ba (230.424 nm)	0.0235 (ppm)	0.35	0.0235 (ppm)	793.3073
11/1/2017 00:14:23	R1710113-001	Be (313.107 nm)	0.0000 (ppm)	29.03	0.0000 (ppm)	-485.8960
11/1/2017 00:14:23	R1710113-001	Ca (227.547 nm)	431.1331 o (ppm)	0.55	431.1331 (ppm)	24275.2277
11/1/2017 00:14:23	R1710113-001	Cd (214.439 nm)	0.0001 (ppm)	60.18	0.0001 (ppm)	16.1361
11/1/2017 00:14:23	R1710113-001	Co (230.786 nm)	0.0074 (ppm)	5.20	0.0074 (ppm)	69.3037
11/1/2017 00:14:23	R1710113-001	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.2962
11/1/2017 00:14:23	R1710113-001	Cu (327.395 nm)	0.0071 (ppm)	1.27	0.0071 (ppm)	453.3959
11/1/2017 00:14:23	R1710113-001	Fe (234.350 nm)	4.1079 (ppm)	0.58	4.1079 (ppm)	45894.4815
11/1/2017 00:14:23	R1710113-001	K (766.491 nm)	18.6737 (ppm)	0.34	18.6737 (ppm)	56334.9675
11/1/2017 00:14:23	R1710113-001	Mg (279.078 nm)	77.6815 o (ppm)	0.49	77.6815 (ppm)	149900.1599
11/1/2017 00:14:23	R1710113-001	Mn (257.610 nm)	2.9096 o (ppm)	0.84	2.9096 (ppm)	912002.0984
11/1/2017 00:14:23	R1710113-001	Mo (202.032 nm)	0.0030 (ppm)	6.61	0.0030 (ppm)	37.4548
11/1/2017 00:14:23	R1710113-001	Na (588.995 nm)	35.1227 (ppm)	0.51	35.1227 (ppm)	1591732.7692
11/1/2017 00:14:23	R1710113-001	Ni (230.299 nm)	-0.0082 u (ppm)	5.42	-0.0082 (ppm)	-76.0005
11/1/2017 00:14:23	R1710113-001	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	4.9158
11/1/2017 00:14:23	R1710113-001	Sb (217.582 nm)	0.0013 (ppm)	94.34	0.0013 (ppm)	2.5179
11/1/2017 00:14:23	R1710113-001	Se (196.026 nm)	0.0056 (ppm)	25.51	0.0056 (ppm)	5.6126
11/1/2017 00:14:23	R1710113-001	Sn (189.925 nm)	-0.0024 u (ppm)	48.36	-0.0024 (ppm)	-3.0063
11/1/2017 00:14:23	R1710113-001	Sr (216.596 nm)	1.0390 (ppm)	0.46	1.0390 (ppm)	14752.3829
11/1/2017 00:14:23	R1710113-001	Ti (336.122 nm)	0.0308 (ppm)	2.26	0.0308 (ppm)	5959.5082
11/1/2017 00:14:23	R1710113-001	Tl (351.923 nm)	0.0107 (ppm)	39.73	0.0107 (ppm)	36.5607
11/1/2017 00:14:23	R1710113-001	V (292.401 nm)	0.0028 (ppm)	4.89	0.0028 (ppm)	209.1403
11/1/2017 00:14:23	R1710113-001	Y (360.074 nm)	0.87 (Ratio)	0.17	0.87 (Ratio)	739290.41
11/1/2017 00:14:23	R1710113-001	Y_R (360.074 nm)	0.87 (Ratio)	0.18	0.87 (Ratio)	739456.52
11/1/2017 00:14:23	R1710113-001	Zn (213.857 nm)	0.0189 (ppm)	1.67	0.0189 (ppm)	502.4475
11/1/2017 00:17:42	R1710113-002	Ag (328.068 nm)	-0.0002 u (ppm)	46.43	-0.0002 (ppm)	-118.4692
11/1/2017 00:17:42	R1710113-002	Al (394.401 nm)	224.5825 o (ppm)	0.59	224.5825 (ppm)	2874264.6712
11/1/2017 00:17:42	R1710113-002	As (188.980 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	-3.7044
11/1/2017 00:17:42	R1710113-002	B (249.772 nm)	1.3346 (ppm)	0.31	1.3346 (ppm)	36985.5409
11/1/2017 00:17:42	R1710113-002	Ba (230.424 nm)	0.0247 (ppm)	1.47	0.0247 (ppm)	831.4728
11/1/2017 00:17:42	R1710113-002	Be (313.107 nm)	0.0143 (ppm)	0.60	0.0143 (ppm)	20625.9306
11/1/2017 00:17:42	R1710113-002	Ca (227.547 nm)	412.7032 o (ppm)	0.52	412.7032 (ppm)	23237.7085
11/1/2017 00:17:42	R1710113-002	Cd (214.439 nm)	0.0145 (ppm)	1.32	0.0145 (ppm)	327.2958
11/1/2017 00:17:42	R1710113-002	Co (230.786 nm)	0.0227 (ppm)	1.59	0.0227 (ppm)	220.7420
11/1/2017 00:17:42	R1710113-002	Cr (267.716 nm)	0.0135 (ppm)	1.18	0.0135 (ppm)	665.4275
11/1/2017 00:17:42	R1710113-002	Cu (327.395 nm)	0.0016 (ppm)	19.04	0.0016 (ppm)	114.9388
11/1/2017 00:17:42	R1710113-002	Fe (234.350 nm)	627.0902 o (ppm)	0.81	627.0902 (ppm)	7004137.1331
11/1/2017 00:17:42	R1710113-002	K (766.491 nm)	131.4586 o (ppm)	0.54	131.4586 (ppm)	396639.2570
11/1/2017 00:17:42	R1710113-002	Mg (279.078 nm)	526.7143 o (ppm)	0.61	526.7143 (ppm)	1016391.5240
11/1/2017 00:17:42	R1710113-002	Mn (257.610 nm)	15.8196 o (ppm)	0.61	15.8196 (ppm)	4958468.6052
11/1/2017 00:17:42	R1710113-002	Mo (202.032 nm)	0.0013 (ppm)	18.06	0.0013 (ppm)	20.4504
11/1/2017 00:17:42	R1710113-002	Na (588.995 nm)	101.3665 o (ppm)	0.88	101.3665 (ppm)	4604152.8692
11/1/2017 00:17:42	R1710113-002	Ni (230.299 nm)	0.0375 (ppm)	3.92	0.0375 (ppm)	231.8462
11/1/2017 00:17:42	R1710113-002	Pb (220.353 nm)	0.0120 (ppm)	35.89	0.0120 (ppm)	30.6215

-003

CK 11/14/17

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:17:42	R1710113-002	Sb (217.582 nm)	-0.0302 u (ppm)	10.19	-0.0302 (ppm)	-40.5141
11/1/2017 00:17:42	R1710113-002	Se (196.026 nm)	0.0313 (ppm)	9.32	0.0313 (ppm)	27.5856
11/1/2017 00:17:42	R1710113-002	Sn (189.925 nm)	0.0018 (ppm)	56.68	0.0018 (ppm)	2.1006
11/1/2017 00:17:42	R1710113-002	Sr (216.596 nm)	1.0664 (ppm)	0.50	1.0664 (ppm)	15140.3137
11/1/2017 00:17:42	R1710113-002	Ti (336.122 nm)	0.0375 (ppm)	3.76	0.0375 (ppm)	7371.7428
11/1/2017 00:17:42	R1710113-002	Tl (351.923 nm)	-0.0395 u (ppm)	8.09	-0.0395 (ppm)	-101.1897
11/1/2017 00:17:42	R1710113-002	V (292.401 nm)	0.0686 (ppm)	0.68	0.0686 (ppm)	2532.1074
11/1/2017 00:17:42	R1710113-002	Y (360.074 nm)	0.94 (Ratio)	1.05	0.94 (Ratio)	803905.96
11/1/2017 00:17:42	R1710113-002	Y_R (360.074 nm)	0.94 (Ratio)	1.05	0.94 (Ratio)	804081.87
11/1/2017 00:17:42	R1710113-002	Zn (213.857 nm)	0.2107 (ppm)	0.35	0.2107 (ppm)	5869.1480
11/1/2017 00:21:00	R1710113-003	Ag (328.068 nm)	-0.0002 u (ppm)	41.76	-0.0002 (ppm)	-114.5160
11/1/2017 00:21:00	R1710113-003	Al (394.401 nm)	214.3441 o (ppm)	0.51	214.3441 (ppm)	2743237.0000
11/1/2017 00:21:00	R1710113-003	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	0.0990
11/1/2017 00:21:00	R1710113-003	B (249.772 nm)	1.2423 (ppm)	0.58	1.2423 (ppm)	34430.2341
11/1/2017 00:21:00	R1710113-003	Ba (230.424 nm)	0.0705 (ppm)	0.83	0.0705 (ppm)	2370.9226
11/1/2017 00:21:00	R1710113-003	Be (313.107 nm)	0.0128 (ppm)	0.54	0.0128 (ppm)	18333.3617
11/1/2017 00:21:00	R1710113-003	Ca (227.547 nm)	398.1992 o (ppm)	0.53	398.1992 (ppm)	22421.2007
11/1/2017 00:21:00	R1710113-003	Cd (214.439 nm)	0.0124 (ppm)	2.51	0.0124 (ppm)	282.2744
11/1/2017 00:21:00	R1710113-003	Co (230.786 nm)	0.0255 (ppm)	5.80	0.0255 (ppm)	247.8480
11/1/2017 00:21:00	R1710113-003	Cr (267.716 nm)	0.0234 (ppm)	1.61	0.0234 (ppm)	1156.3891
11/1/2017 00:21:00	R1710113-003	Cu (327.395 nm)	0.0102 (ppm)	1.42	0.0102 (ppm)	647.0355
11/1/2017 00:21:00	R1710113-003	Fe (234.350 nm)	584.3525 o (ppm)	0.95	584.3525 (ppm)	6526789.3448
11/1/2017 00:21:00	R1710113-003	K (766.491 nm)	123.0052 o (ppm)	0.42	123.0052 (ppm)	371132.8855
11/1/2017 00:21:00	R1710113-003	Mg (279.078 nm)	478.4606 o (ppm)	0.60	478.4606 (ppm)	923277.0635
11/1/2017 00:21:00	R1710113-003	Mn (257.610 nm)	14.1274 o (ppm)	0.85	14.1274 (ppm)	4428085.5239
11/1/2017 00:21:00	R1710113-003	Mo (202.032 nm)	0.0018 (ppm)	3.62	0.0018 (ppm)	25.4317
11/1/2017 00:21:00	R1710113-003	Na (588.995 nm)	93.0697 o (ppm)	0.62	93.0697 (ppm)	4226861.1772
11/1/2017 00:21:00	R1710113-003	Ni (230.299 nm)	0.0395 (ppm)	2.59	0.0395 (ppm)	245.7595
11/1/2017 00:21:00	R1710113-003	Pb (220.353 nm)	0.0232 (ppm)	2.00	0.0232 (ppm)	54.5360
11/1/2017 00:21:00	R1710113-003	Sb (217.582 nm)	-0.0297 u (ppm)	15.86	-0.0297 (ppm)	-39.8380
11/1/2017 00:21:00	R1710113-003	Se (196.026 nm)	0.0254 (ppm)	29.35	0.0254 (ppm)	22.4871
11/1/2017 00:21:00	R1710113-003	Sn (189.925 nm)	0.0022 (ppm)	82.87	0.0022 (ppm)	2.5440
11/1/2017 00:21:00	R1710113-003	Sr (216.596 nm)	1.0385 (ppm)	0.62	1.0385 (ppm)	14745.1030
11/1/2017 00:21:00	R1710113-003	Ti (336.122 nm)	0.2612 (ppm)	2.07	0.2612 (ppm)	54160.0775
11/1/2017 00:21:00	R1710113-003	Tl (351.923 nm)	-0.0324 u (ppm)	7.50	-0.0324 (ppm)	-81.8116
11/1/2017 00:21:00	R1710113-003	V (292.401 nm)	0.0805 (ppm)	0.81	0.0805 (ppm)	2955.2603
11/1/2017 00:21:00	R1710113-003	Y (360.074 nm)	0.94 (Ratio)	1.21	0.94 (Ratio)	802461.71
11/1/2017 00:21:00	R1710113-003	Y_R (360.074 nm)	0.94 (Ratio)	1.21	0.94 (Ratio)	802632.23
11/1/2017 00:21:00	R1710113-003	Zn (213.857 nm)	0.2939 (ppm)	0.61	0.2939 (ppm)	8195.4207
11/1/2017 00:24:19	R1710113-004	Ag (328.068 nm)	-0.0002 u (ppm)	68.47	-0.0002 (ppm)	-119.2329
11/1/2017 00:24:19	R1710113-004	Al (394.401 nm)	217.0488 o (ppm)	0.51	217.0488 (ppm)	2777850.7206
11/1/2017 00:24:19	R1710113-004	As (188.980 nm)	0.0057 (ppm)	82.72	0.0057 (ppm)	3.6648
11/1/2017 00:24:19	R1710113-004	B (249.772 nm)	1.2445 (ppm)	0.50	1.2445 (ppm)	34490.7002
11/1/2017 00:24:19	R1710113-004	Ba (230.424 nm)	0.0757 (ppm)	1.18	0.0757 (ppm)	2546.2858
11/1/2017 00:24:19	R1710113-004	Be (313.107 nm)	0.0129 (ppm)	0.47	0.0129 (ppm)	18562.1621
11/1/2017 00:24:19	R1710113-004	Ca (227.547 nm)	396.7977 o (ppm)	0.46	396.7977 (ppm)	22342.3007
11/1/2017 00:24:19	R1710113-004	Cd (214.439 nm)	0.0125 (ppm)	0.34	0.0125 (ppm)	283.2012
11/1/2017 00:24:19	R1710113-004	Co (230.786 nm)	0.0250 (ppm)	2.14	0.0250 (ppm)	243.1916
11/1/2017 00:24:19	R1710113-004	Cr (267.716 nm)	0.0243 (ppm)	1.04	0.0243 (ppm)	1201.3905
11/1/2017 00:24:19	R1710113-004	Cu (327.395 nm)	0.0109 (ppm)	1.28	0.0109 (ppm)	690.3000
11/1/2017 00:24:19	R1710113-004	Fe (234.350 nm)	589.9946 o (ppm)	0.63	589.9946 (ppm)	6589807.4667

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:24:19	R1710113-004	K (766.491 nm)	122.4514 o (ppm)	0.40	122.4514 (ppm)	369461.8997
11/1/2017 00:24:19	R1710113-004	Mg (279.078 nm)	481.0679 o (ppm)	0.44	481.0679 (ppm)	928308.3641
11/1/2017 00:24:19	R1710113-004	Mn (257.610 nm)	14.2155 o (ppm)	0.46	14.2155 (ppm)	4455687.8690
11/1/2017 00:24:19	R1710113-004	Mo (202.032 nm)	0.0016 (ppm)	30.06	0.0016 (ppm)	23.8156
11/1/2017 00:24:19	R1710113-004	Na (588.995 nm)	92.5068 o (ppm)	0.38	92.5068 (ppm)	4201260.2988
11/1/2017 00:24:19	R1710113-004	Ni (230.299 nm)	0.0315 (ppm)	3.68	0.0315 (ppm)	191.5561
11/1/2017 00:24:19	R1710113-004	Pb (220.353 nm)	0.0255 (ppm)	12.69	0.0255 (ppm)	59.4687
11/1/2017 00:24:19	R1710113-004	Sb (217.582 nm)	-0.0320 u (ppm)	22.06	-0.0320 (ppm)	-42.9280
11/1/2017 00:24:19	R1710113-004	Se (196.026 nm)	0.0287 (ppm)	14.94	0.0287 (ppm)	25.3208
11/1/2017 00:24:19	R1710113-004	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-0.9983
11/1/2017 00:24:19	R1710113-004	Sr (216.596 nm)	1.0326 (ppm)	0.36	1.0326 (ppm)	14660.1697
11/1/2017 00:24:19	R1710113-004	Ti (336.122 nm)	0.2825 (ppm)	1.98	0.2825 (ppm)	58633.3961
11/1/2017 00:24:19	R1710113-004	Tl (351.923 nm)	-0.0337 u (ppm)	6.38	-0.0337 (ppm)	-85.1540
11/1/2017 00:24:19	R1710113-004	V (292.401 nm)	0.0819 (ppm)	0.75	0.0819 (ppm)	3003.1482
11/1/2017 00:24:19	R1710113-004	Y (360.074 nm)	0.94 (Ratio)	1.21	0.94 (Ratio)	804179.86
11/1/2017 00:24:19	R1710113-004	Y_R (360.074 nm)	0.94 (Ratio)	1.21	0.94 (Ratio)	804396.83
11/1/2017 00:24:19	R1710113-004	Zn (213.857 nm)	0.3061 (ppm)	1.27	0.3061 (ppm)	8537.7084
11/1/2017 00:27:38	R1710113-005	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-104.4390
11/1/2017 00:27:38	R1710113-005	Al (394.401 nm)	176.0286 o (ppm)	0.43	176.0286 (ppm)	2252886.1963
11/1/2017 00:27:38	R1710113-005	As (188.980 nm)	0.0026 u (ppm)	> 100.00	0.0026 (ppm)	0.9074
11/1/2017 00:27:38	R1710113-005	B (249.772 nm)	1.2548 (ppm)	0.41	1.2548 (ppm)	34775.5993
11/1/2017 00:27:38	R1710113-005	Ba (230.424 nm)	0.0289 (ppm)	0.85	0.0289 (ppm)	973.6459
11/1/2017 00:27:38	R1710113-005	Be (313.107 nm)	0.0112 (ppm)	0.45	0.0112 (ppm)	16081.8512
11/1/2017 00:27:38	R1710113-005	Ca (227.547 nm)	423.0979 o (ppm)	0.34	423.0979 (ppm)	23822.8811
11/1/2017 00:27:38	R1710113-005	Cd (214.439 nm)	0.0110 (ppm)	1.38	0.0110 (ppm)	250.8729
11/1/2017 00:27:38	R1710113-005	Co (230.786 nm)	0.0236 (ppm)	2.83	0.0236 (ppm)	229.9221
11/1/2017 00:27:38	R1710113-005	Cr (267.716 nm)	0.0113 (ppm)	2.54	0.0113 (ppm)	558.7189
11/1/2017 00:27:38	R1710113-005	Cu (327.395 nm)	0.0014 (ppm)	12.20	0.0014 (ppm)	100.4994
11/1/2017 00:27:38	R1710113-005	Fe (234.350 nm)	567.8471 o (ppm)	0.34	567.8471 (ppm)	6342436.8521
11/1/2017 00:27:38	R1710113-005	K (766.491 nm)	123.3889 o (ppm)	0.58	123.3889 (ppm)	372290.5351
11/1/2017 00:27:38	R1710113-005	Mg (279.078 nm)	470.1525 o (ppm)	0.70	470.1525 (ppm)	907245.0408
11/1/2017 00:27:38	R1710113-005	Mn (257.610 nm)	13.6053 o (ppm)	0.34	13.6053 (ppm)	4264449.9976
11/1/2017 00:27:38	R1710113-005	Mo (202.032 nm)	0.0014 (ppm)	34.62	0.0014 (ppm)	21.1674
11/1/2017 00:27:38	R1710113-005	Na (588.995 nm)	93.1867 o (ppm)	0.70	93.1867 (ppm)	4232181.2330
11/1/2017 00:27:38	R1710113-005	Ni (230.299 nm)	0.0369 (ppm)	9.08	0.0369 (ppm)	228.0072
11/1/2017 00:27:38	R1710113-005	Pb (220.353 nm)	0.0114 (ppm)	14.25	0.0114 (ppm)	29.4740
11/1/2017 00:27:38	R1710113-005	Sb (217.582 nm)	-0.0266 u (ppm)	8.63	-0.0266 (ppm)	-35.5460
11/1/2017 00:27:38	R1710113-005	Se (196.026 nm)	0.0239 (ppm)	29.06	0.0239 (ppm)	21.2579
11/1/2017 00:27:38	R1710113-005	Sn (189.925 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	1.7214
11/1/2017 00:27:38	R1710113-005	Sr (216.596 nm)	1.1105 (ppm)	0.40	1.1105 (ppm)	15766.5613
11/1/2017 00:27:38	R1710113-005	Ti (336.122 nm)	0.0339 (ppm)	1.11	0.0339 (ppm)	6608.8353
11/1/2017 00:27:38	R1710113-005	Tl (351.923 nm)	-0.0266 u (ppm)	6.93	-0.0266 (ppm)	-65.8887
11/1/2017 00:27:38	R1710113-005	V (292.401 nm)	0.0585 (ppm)	0.47	0.0585 (ppm)	2177.8040
11/1/2017 00:27:38	R1710113-005	Y (360.074 nm)	0.93 (Ratio)	0.87	0.93 (Ratio)	792198.04
11/1/2017 00:27:38	R1710113-005	Y_R (360.074 nm)	0.93 (Ratio)	0.88	0.93 (Ratio)	792419.67
11/1/2017 00:27:38	R1710113-005	Zn (213.857 nm)	0.1953 (ppm)	0.58	0.1953 (ppm)	5437.0784
11/1/2017 00:30:57	R1710113-006	Ag (328.068 nm)	0.0144 (ppm)	1.61	0.0144 (ppm)	928.3544
11/1/2017 00:30:57	R1710113-006	Al (394.401 nm)	199.8678 o (ppm)	0.39	199.8678 (ppm)	2557973.7882
11/1/2017 00:30:57	R1710113-006	As (188.980 nm)	0.5807 (ppm)	1.41	0.5807 (ppm)	517.6323
11/1/2017 00:30:57	R1710113-006	B (249.772 nm)	1.0323 (ppm)	0.27	1.0323 (ppm)	28614.9323
11/1/2017 00:30:57	R1710113-006	Ba (230.424 nm)	4.2226 (ppm)	0.60	4.2226 (ppm)	141962.9050

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:30:57	R1710113-006	Be (313.107 nm)	0.0069 (ppm)	0.44	0.0069 (ppm)	9716.9540
11/1/2017 00:30:57	R1710113-006	Ca (227.547 nm)	1203.5786 o (ppm)	0.25	1203.5786 (ppm)	67760.3608
11/1/2017 00:30:57	R1710113-006	Cd (214.439 nm)	0.0079 (ppm)	0.97	0.0079 (ppm)	184.0350
11/1/2017 00:30:57	R1710113-006	Co (230.786 nm)	0.0485 (ppm)	1.67	0.0485 (ppm)	475.1876
11/1/2017 00:30:57	R1710113-006	Cr (267.716 nm)	0.3746 (ppm)	0.56	0.3746 (ppm)	18545.8120
11/1/2017 00:30:57	R1710113-006	Cu (327.395 nm)	1.0845 (ppm)	0.21	1.0845 (ppm)	67344.8801
11/1/2017 00:30:57	R1710113-006	Fe (234.350 nm)	192.0864 o (ppm)	0.39	192.0864 (ppm)	2145472.5518
11/1/2017 00:30:57	R1710113-006	K (766.491 nm)	121.9171 o (ppm)	0.32	121.9171 (ppm)	367849.8368
11/1/2017 00:30:57	R1710113-006	Mg (279.078 nm)	227.1176 o (ppm)	0.39	227.1176 (ppm)	438264.5497
11/1/2017 00:30:57	R1710113-006	Mn (257.610 nm)	3.2240 o (ppm)	0.63	3.2240 (ppm)	1010531.5773
11/1/2017 00:30:57	R1710113-006	Mo (202.032 nm)	0.0588 (ppm)	0.52	0.0588 (ppm)	606.0407
11/1/2017 00:30:57	R1710113-006	Na (588.995 nm)	39.0581 (ppm)	0.44	39.0581 (ppm)	1770697.5517
11/1/2017 00:30:57	R1710113-006	Ni (230.299 nm)	0.1767 (ppm)	2.28	0.1767 (ppm)	1169.7680
11/1/2017 00:30:57	R1710113-006	Pb (220.353 nm)	25.2203 o (ppm)	0.28	25.2203 (ppm)	53889.7061
11/1/2017 00:30:57	R1710113-006	Sb (217.582 nm)	0.0685 (ppm)	6.41	0.0685 (ppm)	94.4547
11/1/2017 00:30:57	R1710113-006	Se (196.026 nm)	0.0272 (ppm)	8.33	0.0272 (ppm)	24.0985
11/1/2017 00:30:57	R1710113-006	Sn (189.925 nm)	0.2584 (ppm)	0.69	0.2584 (ppm)	312.7874
11/1/2017 00:30:57	R1710113-006	Sr (216.596 nm)	2.6833 (ppm)	0.49	2.6833 (ppm)	38098.3297
11/1/2017 00:30:57	R1710113-006	Ti (336.122 nm)	6.0631 o (ppm)	0.85	6.0631 (ppm)	1268118.9216
11/1/2017 00:30:57	R1710113-006	Tl (351.923 nm)	0.0388 (ppm)	7.46	0.0388 (ppm)	113.7424
11/1/2017 00:30:57	R1710113-006	V (292.401 nm)	0.4048 (ppm)	0.38	0.4048 (ppm)	14418.4481
11/1/2017 00:30:57	R1710113-006	Y (360.074 nm)	0.85 (Ratio)	0.87	0.85 (Ratio)	724599.39
11/1/2017 00:30:57	R1710113-006	Y_R (360.074 nm)	0.85 (Ratio)	0.87	0.85 (Ratio)	724816.94
11/1/2017 00:30:57	R1710113-006	Zn (213.857 nm)	3.1527 o (ppm)	0.67	3.1527 (ppm)	88172.8197
11/1/2017 00:34:16	Continuing Calibration Verification	Ag (328.068 nm)	0.5014 (ppm)	0.27	0.5014 (ppm)	35719.7592
11/1/2017 00:34:16	Continuing Calibration Verification	Al (394.401 nm)	9.6697 (ppm)	0.76	9.6697 (ppm)	123876.1478
11/1/2017 00:34:16	Continuing Calibration Verification	As (188.980 nm)	1.0034 (ppm)	0.88	1.0034 (ppm)	895.4947
11/1/2017 00:34:16	Continuing Calibration Verification	B (249.772 nm)	2.4787 (ppm)	0.36	2.4787 (ppm)	68663.1423
11/1/2017 00:34:16	Continuing Calibration Verification	Ba (230.424 nm)	10.6551 (ppm)	0.28	10.6551 (ppm)	358215.0417
11/1/2017 00:34:16	Continuing Calibration Verification	Be (313.107 nm)	0.2600 (ppm)	0.42	0.2600 (ppm)	383564.4642
11/1/2017 00:34:16	Continuing Calibration Verification	Ca (227.547 nm)	24.6537 (ppm)	1.41	24.6537 (ppm)	1392.3020
11/1/2017 00:34:16	Continuing Calibration Verification	Cd (214.439 nm)	0.5242 (ppm)	0.22	0.5242 (ppm)	11362.1640
11/1/2017 00:34:16	Continuing Calibration Verification	Co (230.786 nm)	2.6884 (ppm)	0.44	2.6884 (ppm)	26538.0175
11/1/2017 00:34:16	Continuing Calibration Verification	Cr (267.716 nm)	0.5266 (ppm)	0.22	0.5266 (ppm)	26074.7348
11/1/2017 00:34:16	Continuing Calibration Verification	Cu (327.395 nm)	1.2068 (ppm)	0.53	1.2068 (ppm)	74939.1631
11/1/2017 00:34:16	Continuing Calibration Verification	Fe (234.350 nm)	5.3472 (ppm)	2.43	5.3472 (ppm)	59735.9395
11/1/2017 00:34:16	Continuing Calibration Verification	K (766.491 nm)	24.6451 (ppm)	0.83	24.6451 (ppm)	74352.4748
11/1/2017 00:34:16	Continuing Calibration Verification	Mg (279.078 nm)	26.2777 (ppm)	0.48	26.2777 (ppm)	50707.0184
11/1/2017 00:34:16	Continuing Calibration Verification	Mn (257.610 nm)	0.7847 (ppm)	0.49	0.7847 (ppm)	245955.9444
11/1/2017 00:34:16	Continuing Calibration Verification	Mo (202.032 nm)	2.4950 (ppm)	0.33	2.4950 (ppm)	25440.5743
11/1/2017 00:34:16	Continuing Calibration Verification	Na (588.995 nm)	24.6538 (ppm)	0.77	24.6538 (ppm)	1115666.3448
11/1/2017 00:34:16	Continuing Calibration Verification	Ni (230.299 nm)	2.1108 (ppm)	0.31	2.1108 (ppm)	14198.8534
11/1/2017 00:34:16	Continuing Calibration Verification	Pb (220.353 nm)	0.5245 (ppm)	0.61	0.5245 (ppm)	1125.7360
11/1/2017 00:34:16	Continuing Calibration Verification	Sb (217.582 nm)	5.0254 (ppm)	0.38	5.0254 (ppm)	6873.3660
11/1/2017 00:34:16	Continuing Calibration Verification	Se (196.026 nm)	0.5117 (ppm)	0.65	0.5117 (ppm)	438.9809
11/1/2017 00:34:16	Continuing Calibration Verification	Sn (189.925 nm)	5.3421 (ppm)	0.75	5.3421 (ppm)	6468.9350
11/1/2017 00:34:16	Continuing Calibration Verification	Sr (216.596 nm)	2.6597 (ppm)	0.44	2.6597 (ppm)	37764.1415
11/1/2017 00:34:16	Continuing Calibration Verification	Ti (336.122 nm)	2.5556 (ppm)	0.39	2.5556 (ppm)	534235.9644
11/1/2017 00:34:16	Continuing Calibration Verification	Tl (351.923 nm)	0.9967 (ppm)	0.31	0.9967 (ppm)	2744.8805
11/1/2017 00:34:16	Continuing Calibration Verification	V (292.401 nm)	2.5858 (ppm)	0.38	2.5858 (ppm)	91510.1548
11/1/2017 00:34:16	Continuing Calibration Verification	Y (360.074 nm)	0.91 (Ratio)	0.82	0.91 (Ratio)	772504.80

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:34:16	Continuing Calibration Verification	Y_R (360.074 nm)	0.90 (Ratio)	0.82	0.90 (Ratio)	772815.90
11/1/2017 00:34:16	Continuing Calibration Verification	Zn (213.857 nm)	1.0497 (ppm)	0.31	1.0497 (ppm)	29337.9977
11/1/2017 00:37:35	Continuing Calibration Blank	Ag (328.068 nm)	0.0002 (ppm)	23.04	0.0002 (ppm)	-87.0338
11/1/2017 00:37:35	Continuing Calibration Blank	Al (394.401 nm)	0.0117 (ppm)	16.69	0.0117 (ppm)	275.7915
11/1/2017 00:37:35	Continuing Calibration Blank	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-0.4367
11/1/2017 00:37:35	Continuing Calibration Blank	B (249.772 nm)	0.0061 (ppm)	18.96	0.0061 (ppm)	201.8080
11/1/2017 00:37:35	Continuing Calibration Blank	Ba (230.424 nm)	0.0089 (ppm)	22.46	0.0089 (ppm)	301.5962
11/1/2017 00:37:35	Continuing Calibration Blank	Be (313.107 nm)	0.0002 (ppm)	24.45	0.0002 (ppm)	-231.3769
11/1/2017 00:37:35	Continuing Calibration Blank	Ca (227.547 nm)	0.0700 (ppm)	81.86	0.0700 (ppm)	8.3569
11/1/2017 00:37:35	Continuing Calibration Blank	Cd (214.439 nm)	0.0004 (ppm)	18.25	0.0004 (ppm)	21.8526
11/1/2017 00:37:35	Continuing Calibration Blank	Co (230.786 nm)	0.0024 (ppm)	22.80	0.0024 (ppm)	20.1161
11/1/2017 00:37:35	Continuing Calibration Blank	Cr (267.716 nm)	0.0004 (ppm)	18.69	0.0004 (ppm)	19.4503
11/1/2017 00:37:35	Continuing Calibration Blank	Cu (327.395 nm)	0.0009 (ppm)	20.88	0.0009 (ppm)	70.6019
11/1/2017 00:37:35	Continuing Calibration Blank	Fe (234.350 nm)	0.0290 (ppm)	15.54	0.0290 (ppm)	335.2470
11/1/2017 00:37:35	Continuing Calibration Blank	K (766.491 nm)	0.0916 (ppm)	13.73	0.0916 (ppm)	267.4078
11/1/2017 00:37:35	Continuing Calibration Blank	Mg (279.078 nm)	0.0285 (ppm)	18.89	0.0285 (ppm)	54.2890
11/1/2017 00:37:35	Continuing Calibration Blank	Mn (257.610 nm)	0.0026 (ppm)	11.40	0.0026 (ppm)	832.3182
11/1/2017 00:37:35	Continuing Calibration Blank	Mo (202.032 nm)	0.0041 (ppm)	2.41	0.0041 (ppm)	48.7908
11/1/2017 00:37:35	Continuing Calibration Blank	Na (588.995 nm)	-0.0107 u (ppm)	47.55	-0.0107 (ppm)	-5947.4422
11/1/2017 00:37:35	Continuing Calibration Blank	Ni (230.299 nm)	0.0010 (ppm)	42.44	0.0010 (ppm)	-13.7219
11/1/2017 00:37:35	Continuing Calibration Blank	Pb (220.353 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	6.5859
11/1/2017 00:37:35	Continuing Calibration Blank	Sb (217.582 nm)	0.0050 (ppm)	53.81	0.0050 (ppm)	7.6292
11/1/2017 00:37:35	Continuing Calibration Blank	Se (196.026 nm)	-0.0029 u (ppm)	> 100.00	-0.0029 (ppm)	-1.6672
11/1/2017 00:37:35	Continuing Calibration Blank	Sn (189.925 nm)	0.0042 (ppm)	34.42	0.0042 (ppm)	4.9677
11/1/2017 00:37:35	Continuing Calibration Blank	Sr (216.596 nm)	0.0021 (ppm)	25.01	0.0021 (ppm)	29.1385
11/1/2017 00:37:35	Continuing Calibration Blank	Ti (336.122 nm)	0.0032 (ppm)	10.49	0.0032 (ppm)	188.3380
11/1/2017 00:37:35	Continuing Calibration Blank	Tl (351.923 nm)	0.0032 (ppm)	67.73	0.0032 (ppm)	16.1957
11/1/2017 00:37:35	Continuing Calibration Blank	V (292.401 nm)	0.0022 (ppm)	16.14	0.0022 (ppm)	185.5737
11/1/2017 00:37:35	Continuing Calibration Blank	Y (360.074 nm)	0.94 (Ratio)	0.74	0.94 (Ratio)	802471.11
11/1/2017 00:37:35	Continuing Calibration Blank	Y_R (360.074 nm)	0.94 (Ratio)	0.74	0.94 (Ratio)	802858.22
11/1/2017 00:37:35	Continuing Calibration Blank	Zn (213.857 nm)	0.0008 (ppm)	15.18	0.0008 (ppm)	-5.5571
11/1/2017 00:40:54	R1710113-007	Ag (328.068 nm)	0.0070 (ppm)	0.94	0.0070 (ppm)	396.0046
11/1/2017 00:40:54	R1710113-007	Al (394.401 nm)	88.9908 o (ppm)	0.60	88.9908 (ppm)	1139002.7114
11/1/2017 00:40:54	R1710113-007	As (188.980 nm)	0.3466 (ppm)	2.18	0.3466 (ppm)	308.3466
11/1/2017 00:40:54	R1710113-007	B (249.772 nm)	0.7957 (ppm)	0.66	0.7957 (ppm)	22064.1283
11/1/2017 00:40:54	R1710113-007	Ba (230.424 nm)	1.9661 (ppm)	0.75	1.9661 (ppm)	66099.9354
11/1/2017 00:40:54	R1710113-007	Be (313.107 nm)	0.0030 (ppm)	0.57	0.0030 (ppm)	3885.0566
11/1/2017 00:40:54	R1710113-007	Ca (227.547 nm)	961.0433 o (ppm)	0.61	961.0433 (ppm)	54106.7372
11/1/2017 00:40:54	R1710113-007	Cd (214.439 nm)	0.0035 (ppm)	10.76	0.0035 (ppm)	90.0611
11/1/2017 00:40:54	R1710113-007	Co (230.786 nm)	0.0231 (ppm)	4.23	0.0231 (ppm)	224.0961
11/1/2017 00:40:54	R1710113-007	Cr (267.716 nm)	0.1630 (ppm)	0.76	0.1630 (ppm)	8070.1245
11/1/2017 00:40:54	R1710113-007	Cu (327.395 nm)	0.4870 (ppm)	0.99	0.4870 (ppm)	30250.7601
11/1/2017 00:40:54	R1710113-007	Fe (234.350 nm)	94.8956 o (ppm)	0.66	94.8956 (ppm)	1059924.7426
11/1/2017 00:40:54	R1710113-007	K (766.491 nm)	89.2508 o (ppm)	0.60	89.2508 (ppm)	269286.2495
11/1/2017 00:40:54	R1710113-007	Mg (279.078 nm)	210.3130 o (ppm)	0.71	210.3130 (ppm)	405836.9207
11/1/2017 00:40:54	R1710113-007	Mn (257.610 nm)	1.9059 o (ppm)	0.37	1.9059 (ppm)	597379.3812
11/1/2017 00:40:54	R1710113-007	Mo (202.032 nm)	0.0428 (ppm)	1.92	0.0428 (ppm)	443.2310
11/1/2017 00:40:54	R1710113-007	Na (588.995 nm)	39.1787 (ppm)	0.73	39.1787 (ppm)	1776181.9673
11/1/2017 00:40:54	R1710113-007	Ni (230.299 nm)	0.0776 (ppm)	1.90	0.0776 (ppm)	502.2027
11/1/2017 00:40:54	R1710113-007	Pb (220.353 nm)	12.0916 o (ppm)	0.71	12.0916 (ppm)	25839.5189
11/1/2017 00:40:54	R1710113-007	Sb (217.582 nm)	0.0485 (ppm)	2.36	0.0485 (ppm)	67.1215

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:40:54	R1710113-007	Se (196.026 nm)	0.0133 (ppm)	23.40	0.0133 (ppm)	12.1947
11/1/2017 00:40:54	R1710113-007	Sn (189.925 nm)	0.1168 (ppm)	1.30	0.1168 (ppm)	141.3992
11/1/2017 00:40:54	R1710113-007	Sr (216.596 nm)	2.0825 (ppm)	0.94	2.0825 (ppm)	29567.4324
11/1/2017 00:40:54	R1710113-007	Ti (336.122 nm)	3.0735 (ppm)	0.62	3.0735 (ppm)	642604.2294
11/1/2017 00:40:54	R1710113-007	Tl (351.923 nm)	0.0260 (ppm)	6.51	0.0260 (ppm)	78.6357
11/1/2017 00:40:54	R1710113-007	V (292.401 nm)	0.1814 (ppm)	0.53	0.1814 (ppm)	6520.1916
11/1/2017 00:40:54	R1710113-007	Y (360.074 nm)	0.84 (Ratio)	1.10	0.84 (Ratio)	720095.98
11/1/2017 00:40:54	R1710113-007	Y_R (360.074 nm)	0.84 (Ratio)	1.10	0.84 (Ratio)	720371.47
11/1/2017 00:40:54	R1710113-007	Zn (213.857 nm)	1.4357 (ppm)	0.75	1.4357 (ppm)	40137.6885
11/1/2017 00:44:13	R1710113-007L	Ag (328.068 nm)	0.0014 (ppm)	10.26	0.0014 (ppm)	-1.9097
11/1/2017 00:44:13	R1710113-007L	Al (394.401 nm)	16.6784 (ppm)	0.28	16.6784 (ppm)	213571.3052
11/1/2017 00:44:13	R1710113-007L	As (188.980 nm)	0.0683 (ppm)	5.72	0.0683 (ppm)	59.5995
11/1/2017 00:44:13	R1710113-007L	B (249.772 nm)	0.1562 (ppm)	0.69	0.1562 (ppm)	4359.4785
11/1/2017 00:44:13	R1710113-007L	Ba (230.424 nm)	0.4196 (ppm)	0.56	0.4196 (ppm)	14108.5505
11/1/2017 00:44:13	R1710113-007L	Be (313.107 nm)	0.0006 (ppm)	2.66	0.0006 (ppm)	414.8477
11/1/2017 00:44:13	R1710113-007L	Ca (227.547 nm)	181.0533 o (ppm)	0.43	181.0533 (ppm)	10196.8806
11/1/2017 00:44:13	R1710113-007L	Cd (214.439 nm)	0.0010 (ppm)	17.09	0.0010 (ppm)	35.5583
11/1/2017 00:44:13	R1710113-007L	Co (230.786 nm)	0.0047 (ppm)	16.13	0.0047 (ppm)	42.8121
11/1/2017 00:44:13	R1710113-007L	Cr (267.716 nm)	0.0358 (ppm)	0.72	0.0358 (ppm)	1772.2300
11/1/2017 00:44:13	R1710113-007L	Cu (327.395 nm)	0.0924 (ppm)	0.81	0.0924 (ppm)	5752.5601
11/1/2017 00:44:13	R1710113-007L	Fe (234.350 nm)	21.1365 o (ppm)	0.36	21.1365 (ppm)	236090.8677
11/1/2017 00:44:13	R1710113-007L	K (766.491 nm)	16.6686 (ppm)	0.55	16.6686 (ppm)	50285.0688
11/1/2017 00:44:13	R1710113-007L	Mg (279.078 nm)	41.7621 (ppm)	0.37	41.7621 (ppm)	80586.9246
11/1/2017 00:44:13	R1710113-007L	Mn (257.610 nm)	0.4051 (ppm)	0.29	0.4051 (ppm)	126973.9553
11/1/2017 00:44:13	R1710113-007L	Mo (202.032 nm)	0.0093 (ppm)	5.86	0.0093 (ppm)	101.5220
11/1/2017 00:44:13	R1710113-007L	Na (588.995 nm)	7.4916 (ppm)	0.60	7.4916 (ppm)	335217.7125
11/1/2017 00:44:13	R1710113-007L	Ni (230.299 nm)	0.0122 (ppm)	2.95	0.0122 (ppm)	61.5063
11/1/2017 00:44:13	R1710113-007L	Pb (220.353 nm)	2.5860 o (ppm)	0.20	2.5860 (ppm)	5530.1769
11/1/2017 00:44:13	R1710113-007L	Sb (217.582 nm)	0.0084 (ppm)	51.19	0.0084 (ppm)	12.2909
11/1/2017 00:44:13	R1710113-007L	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.6881
11/1/2017 00:44:13	R1710113-007L	Sn (189.925 nm)	0.0241 (ppm)	12.98	0.0241 (ppm)	29.0851
11/1/2017 00:44:13	R1710113-007L	Sr (216.596 nm)	0.4469 (ppm)	0.45	0.4469 (ppm)	6344.4143
11/1/2017 00:44:13	R1710113-007L	Ti (336.122 nm)	0.6756 (ppm)	0.44	0.6756 (ppm)	140873.3063
11/1/2017 00:44:13	R1710113-007L	Tl (351.923 nm)	0.0060 (ppm)	39.69	0.0060 (ppm)	23.6937
11/1/2017 00:44:13	R1710113-007L	V (292.401 nm)	0.0389 (ppm)	0.88	0.0389 (ppm)	1482.2784
11/1/2017 00:44:13	R1710113-007L	Y (360.074 nm)	0.89 (Ratio)	0.65	0.89 (Ratio)	757670.61
11/1/2017 00:44:13	R1710113-007L	Y_R (360.074 nm)	0.89 (Ratio)	0.65	0.89 (Ratio)	757987.23
11/1/2017 00:44:13	R1710113-007L	Zn (213.857 nm)	0.2900 (ppm)	0.45	0.2900 (ppm)	8086.8014
11/1/2017 00:47:33	R1710200-001	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-102.6720
11/1/2017 00:47:33	R1710200-001	Al (394.401 nm)	0.0484 (ppm)	1.84	0.0484 (ppm)	744.9204
11/1/2017 00:47:33	R1710200-001	As (188.980 nm)	0.0031 (ppm)	> 100.00	0.0031 (ppm)	1.3549
11/1/2017 00:47:33	R1710200-001	B (249.772 nm)	1.1659 (ppm)	0.69	1.1659 (ppm)	32315.3339
11/1/2017 00:47:33	R1710200-001	Ba (230.424 nm)	0.2337 (ppm)	0.72	0.2337 (ppm)	7859.4372
11/1/2017 00:47:33	R1710200-001	Be (313.107 nm)	0.0000 (ppm)	35.76	0.0000 (ppm)	-573.1324
11/1/2017 00:47:33	R1710200-001	Ca (227.547 nm)	109.2567 o (ppm)	0.81	109.2567 (ppm)	6155.0623
11/1/2017 00:47:33	R1710200-001	Cd (214.439 nm)	0.0001 (ppm)	51.82	0.0001 (ppm)	16.4877
11/1/2017 00:47:33	R1710200-001	Co (230.786 nm)	0.0035 (ppm)	21.60	0.0035 (ppm)	30.5631
11/1/2017 00:47:33	R1710200-001	Cr (267.716 nm)	-0.0001 u (ppm)	75.67	-0.0001 (ppm)	-4.5727
11/1/2017 00:47:33	R1710200-001	Cu (327.395 nm)	0.0036 (ppm)	3.60	0.0036 (ppm)	238.6527
11/1/2017 00:47:33	R1710200-001	Fe (234.350 nm)	3.1677 (ppm)	0.67	3.1677 (ppm)	35393.1888
11/1/2017 00:47:33	R1710200-001	K (766.491 nm)	149.0887 o (ppm)	1.01	149.0887 (ppm)	449834.1238

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:47:33	R1710200-001	Mg (279.078 nm)	39.4531 (ppm)	0.69	39.4531 (ppm)	76131.3820
11/1/2017 00:47:33	R1710200-001	Mn (257.610 nm)	0.7909 (ppm)	0.53	0.7909 (ppm)	247900.5380
11/1/2017 00:47:33	R1710200-001	Mo (202.032 nm)	0.0067 (ppm)	7.57	0.0067 (ppm)	74.9442
11/1/2017 00:47:33	R1710200-001	Na (588.995 nm)	459.9199 o (ppm)	1.08	459.9199 (ppm)	20909273.8110
11/1/2017 00:47:33	R1710200-001	Ni (230.299 nm)	0.0131 (ppm)	6.06	0.0131 (ppm)	67.6916
11/1/2017 00:47:33	R1710200-001	Pb (220.353 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	6.9263
11/1/2017 00:47:33	R1710200-001	Sb (217.582 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	1.2476
11/1/2017 00:47:33	R1710200-001	Se (196.026 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	1.0433
11/1/2017 00:47:33	R1710200-001	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.1277
11/1/2017 00:47:33	R1710200-001	Sr (216.596 nm)	0.4432 (ppm)	0.82	0.4432 (ppm)	6292.7212
11/1/2017 00:47:33	R1710200-001	Ti (336.122 nm)	0.0023 (ppm)	5.31	0.0023 (ppm)	7.7345
11/1/2017 00:47:33	R1710200-001	Tl (351.923 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	10.6285
11/1/2017 00:47:33	R1710200-001	V (292.401 nm)	0.0012 (ppm)	13.48	0.0012 (ppm)	153.0520
11/1/2017 00:47:33	R1710200-001	Y (360.074 nm)	0.85 (Ratio)	0.91	0.85 (Ratio)	720980.54
11/1/2017 00:47:33	R1710200-001	Y_R (360.074 nm)	0.84 (Ratio)	0.90	0.84 (Ratio)	721210.27
11/1/2017 00:47:33	R1710200-001	Zn (213.857 nm)	0.0098 (ppm)	1.66	0.0098 (ppm)	246.7232
11/1/2017 00:50:52	R1710200-003	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-101.9848
11/1/2017 00:50:52	R1710200-003	Al (394.401 nm)	0.0757 (ppm)	4.09	0.0757 (ppm)	1094.3851
11/1/2017 00:50:52	R1710200-003	As (188.980 nm)	0.0032 u (ppm)	> 100.00	0.0032 (ppm)	1.4018
11/1/2017 00:50:52	R1710200-003	B (249.772 nm)	0.0290 (ppm)	2.21	0.0290 (ppm)	837.1550
11/1/2017 00:50:52	R1710200-003	Ba (230.424 nm)	0.0361 (ppm)	1.65	0.0361 (ppm)	1214.8837
11/1/2017 00:50:52	R1710200-003	Be (313.107 nm)	0.0000 (ppm)	46.53	0.0000 (ppm)	-544.9112
11/1/2017 00:50:52	R1710200-003	Ca (227.547 nm)	113.8125 o (ppm)	0.53	113.8125 (ppm)	6411.5326
11/1/2017 00:50:52	R1710200-003	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	13.6908
11/1/2017 00:50:52	R1710200-003	Co (230.786 nm)	-0.0001 u (ppm)	47.89	-0.0001 (ppm)	-4.8638
11/1/2017 00:50:52	R1710200-003	Cr (267.716 nm)	0.0002 (ppm)	50.87	0.0002 (ppm)	10.0976
11/1/2017 00:50:52	R1710200-003	Cu (327.395 nm)	0.0053 (ppm)	1.73	0.0053 (ppm)	341.5937
11/1/2017 00:50:52	R1710200-003	Fe (234.350 nm)	0.0734 (ppm)	5.09	0.0734 (ppm)	831.9057
11/1/2017 00:50:52	R1710200-003	K (766.491 nm)	4.3625 (ppm)	1.79	4.3625 (ppm)	13154.0971
11/1/2017 00:50:52	R1710200-003	Mg (279.078 nm)	17.2344 (ppm)	0.49	17.2344 (ppm)	33256.1936
11/1/2017 00:50:52	R1710200-003	Mn (257.610 nm)	0.0096 (ppm)	8.03	0.0096 (ppm)	3000.0409
11/1/2017 00:50:52	R1710200-003	Mo (202.032 nm)	0.0004 (ppm)	54.14	0.0004 (ppm)	10.6713
11/1/2017 00:50:52	R1710200-003	Na (588.995 nm)	3.8473 (ppm)	3.60	3.8473 (ppm)	169495.9543
11/1/2017 00:50:52	R1710200-003	Ni (230.299 nm)	-0.0030 u (ppm)	22.20	-0.0030 (ppm)	-41.1327
11/1/2017 00:50:52	R1710200-003	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.2087
11/1/2017 00:50:52	R1710200-003	Sb (217.582 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.9038
11/1/2017 00:50:52	R1710200-003	Se (196.026 nm)	0.0021 (ppm)	54.25	0.0021 (ppm)	2.5619
11/1/2017 00:50:52	R1710200-003	Sn (189.925 nm)	-0.0012 u (ppm)	44.80	-0.0012 (ppm)	-1.5746
11/1/2017 00:50:52	R1710200-003	Sr (216.596 nm)	0.7904 (ppm)	0.49	0.7904 (ppm)	11222.1613
11/1/2017 00:50:52	R1710200-003	Ti (336.122 nm)	0.0030 (ppm)	2.33	0.0030 (ppm)	147.8404
11/1/2017 00:50:52	R1710200-003	Tl (351.923 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	11.0779
11/1/2017 00:50:52	R1710200-003	V (292.401 nm)	0.0005 (ppm)	26.16	0.0005 (ppm)	127.5199
11/1/2017 00:50:52	R1710200-003	Y (360.074 nm)	0.91 (Ratio)	0.73	0.91 (Ratio)	774753.33
11/1/2017 00:50:52	R1710200-003	Y_R (360.074 nm)	0.91 (Ratio)	0.73	0.91 (Ratio)	775084.75
11/1/2017 00:50:52	R1710200-003	Zn (213.857 nm)	0.0120 (ppm)	0.46	0.0120 (ppm)	308.8649
11/1/2017 00:54:10	Continuing Calibration Verification	Ag (328.068 nm)	0.4967 (ppm)	0.13	0.4967 (ppm)	35384.5032
11/1/2017 00:54:10	Continuing Calibration Verification	Al (394.401 nm)	9.4935 (ppm)	0.37	9.4935 (ppm)	121620.2910
11/1/2017 00:54:10	Continuing Calibration Verification	As (188.980 nm)	0.9842 (ppm)	0.20	0.9842 (ppm)	878.3329
11/1/2017 00:54:10	Continuing Calibration Verification	B (249.772 nm)	2.4493 (ppm)	0.22	2.4493 (ppm)	67849.3111
11/1/2017 00:54:10	Continuing Calibration Verification	Ba (230.424 nm)	10.5317 (ppm)	0.51	10.5317 (ppm)	354068.4400
11/1/2017 00:54:10	Continuing Calibration Verification	Be (313.107 nm)	0.2571 (ppm)	0.28	0.2571 (ppm)	379207.1092

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:54:10	Continuing Calibration Verification	Ca (227.547 nm)	24.1369 (ppm)	0.82	24.1369 (ppm)	1363.2108
11/1/2017 00:54:10	Continuing Calibration Verification	Cd (214.439 nm)	0.5194 (ppm)	0.31	0.5194 (ppm)	11258.6779
11/1/2017 00:54:10	Continuing Calibration Verification	Co (230.786 nm)	2.6627 (ppm)	0.26	2.6627 (ppm)	26284.7439
11/1/2017 00:54:10	Continuing Calibration Verification	Cr (267.716 nm)	0.5204 (ppm)	0.30	0.5204 (ppm)	25767.7415
11/1/2017 00:54:10	Continuing Calibration Verification	Cu (327.395 nm)	1.1908 (ppm)	0.51	1.1908 (ppm)	73942.4987
11/1/2017 00:54:10	Continuing Calibration Verification	Fe (234.350 nm)	4.9835 (ppm)	0.37	4.9835 (ppm)	55673.7924
11/1/2017 00:54:10	Continuing Calibration Verification	K (766.491 nm)	24.2422 (ppm)	0.48	24.2422 (ppm)	73136.8756
11/1/2017 00:54:10	Continuing Calibration Verification	Mg (279.078 nm)	25.8205 (ppm)	0.32	25.8205 (ppm)	49824.7125
11/1/2017 00:54:10	Continuing Calibration Verification	Mn (257.610 nm)	0.7712 (ppm)	0.22	0.7712 (ppm)	241727.3362
11/1/2017 00:54:10	Continuing Calibration Verification	Mo (202.032 nm)	2.4670 (ppm)	0.33	2.4670 (ppm)	25154.9496
11/1/2017 00:54:10	Continuing Calibration Verification	Na (588.995 nm)	24.3443 (ppm)	0.70	24.3443 (ppm)	1101588.5639
11/1/2017 00:54:10	Continuing Calibration Verification	Ni (230.299 nm)	2.0918 (ppm)	0.31	2.0918 (ppm)	14070.9930
11/1/2017 00:54:10	Continuing Calibration Verification	Pb (220.353 nm)	0.5166 (ppm)	0.55	0.5166 (ppm)	1108.8570
11/1/2017 00:54:10	Continuing Calibration Verification	Sb (217.582 nm)	4.9602 (ppm)	0.79	4.9602 (ppm)	6784.1677
11/1/2017 00:54:10	Continuing Calibration Verification	Se (196.026 nm)	0.5033 (ppm)	1.44	0.5033 (ppm)	431.7809
11/1/2017 00:54:10	Continuing Calibration Verification	Sn (189.925 nm)	5.2789 (ppm)	0.37	5.2789 (ppm)	6392.4226
11/1/2017 00:54:10	Continuing Calibration Verification	Sr (216.596 nm)	2.6345 (ppm)	0.37	2.6345 (ppm)	37406.3479
11/1/2017 00:54:10	Continuing Calibration Verification	Ti (336.122 nm)	2.5243 (ppm)	0.29	2.5243 (ppm)	527692.1239
11/1/2017 00:54:10	Continuing Calibration Verification	Tl (351.923 nm)	0.9885 (ppm)	0.67	0.9885 (ppm)	2722.4051
11/1/2017 00:54:10	Continuing Calibration Verification	V (292.401 nm)	2.5593 (ppm)	0.22	2.5593 (ppm)	90570.7831
11/1/2017 00:54:10	Continuing Calibration Verification	Y (360.074 nm)	0.90 (Ratio)	0.83	0.90 (Ratio)	765781.38
11/1/2017 00:54:10	Continuing Calibration Verification	Y_R (360.074 nm)	0.90 (Ratio)	0.83	0.90 (Ratio)	766093.83
11/1/2017 00:54:10	Continuing Calibration Verification	Zn (213.857 nm)	1.0377 (ppm)	0.34	1.0377 (ppm)	29002.7654
11/1/2017 00:57:29	Continuing Calibration Blank	Ag (328.068 nm)	0.0003 (ppm)	28.48	0.0003 (ppm)	-83.9908
11/1/2017 00:57:29	Continuing Calibration Blank	Al (394.401 nm)	0.0083 (ppm)	15.10	0.0083 (ppm)	232.2334
11/1/2017 00:57:29	Continuing Calibration Blank	As (188.980 nm)	0.0009 (ppm)	> 100.00	0.0009 (ppm)	-0.6562
11/1/2017 00:57:29	Continuing Calibration Blank	B (249.772 nm)	0.0063 (ppm)	17.37	0.0063 (ppm)	209.3134
11/1/2017 00:57:29	Continuing Calibration Blank	Ba (230.424 nm)	0.0098 (ppm)	17.19	0.0098 (ppm)	330.2019
11/1/2017 00:57:29	Continuing Calibration Blank	Be (313.107 nm)	0.0002 (ppm)	16.54	0.0002 (ppm)	-218.1760
11/1/2017 00:57:29	Continuing Calibration Blank	Ca (227.547 nm)	0.0425 (ppm)	46.67	0.0425 (ppm)	6.8042
11/1/2017 00:57:29	Continuing Calibration Blank	Cd (214.439 nm)	0.0004 (ppm)	72.41	0.0004 (ppm)	23.0060
11/1/2017 00:57:29	Continuing Calibration Blank	Co (230.786 nm)	0.0026 (ppm)	16.27	0.0026 (ppm)	22.4239
11/1/2017 00:57:29	Continuing Calibration Blank	Cr (267.716 nm)	0.0005 (ppm)	18.59	0.0005 (ppm)	24.0219
11/1/2017 00:57:29	Continuing Calibration Blank	Cu (327.395 nm)	0.0012 (ppm)	18.48	0.0012 (ppm)	90.3004
11/1/2017 00:57:29	Continuing Calibration Blank	Fe (234.350 nm)	0.0065 (ppm)	15.60	0.0065 (ppm)	84.9040
11/1/2017 00:57:29	Continuing Calibration Blank	K (766.491 nm)	0.0789 (ppm)	12.55	0.0789 (ppm)	229.2570
11/1/2017 00:57:29	Continuing Calibration Blank	Mg (279.078 nm)	0.0210 (ppm)	17.25	0.0210 (ppm)	39.7588
11/1/2017 00:57:29	Continuing Calibration Blank	Mn (257.610 nm)	0.0020 (ppm)	11.54	0.0020 (ppm)	630.4339
11/1/2017 00:57:29	Continuing Calibration Blank	Mo (202.032 nm)	0.0045 (ppm)	7.62	0.0045 (ppm)	52.7480
11/1/2017 00:57:29	Continuing Calibration Blank	Na (588.995 nm)	-0.0078 u (ppm)	45.65	-0.0078 (ppm)	-5814.6675
11/1/2017 00:57:29	Continuing Calibration Blank	Ni (230.299 nm)	0.0016 (ppm)	15.95	0.0016 (ppm)	-9.5183
11/1/2017 00:57:29	Continuing Calibration Blank	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	4.9454
11/1/2017 00:57:29	Continuing Calibration Blank	Sb (217.582 nm)	0.0062 (ppm)	14.06	0.0062 (ppm)	9.2707
11/1/2017 00:57:29	Continuing Calibration Blank	Se (196.026 nm)	0.0011 (ppm)	24.22	0.0011 (ppm)	1.7113
11/1/2017 00:57:29	Continuing Calibration Blank	Sn (189.925 nm)	0.0044 (ppm)	17.51	0.0044 (ppm)	5.2671
11/1/2017 00:57:29	Continuing Calibration Blank	Sr (216.596 nm)	0.0023 (ppm)	27.53	0.0023 (ppm)	31.7664
11/1/2017 00:57:29	Continuing Calibration Blank	Ti (336.122 nm)	0.0031 (ppm)	11.14	0.0031 (ppm)	161.7698
11/1/2017 00:57:29	Continuing Calibration Blank	Tl (351.923 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	9.5282
11/1/2017 00:57:29	Continuing Calibration Blank	V (292.401 nm)	0.0026 (ppm)	19.88	0.0026 (ppm)	199.5183
11/1/2017 00:57:29	Continuing Calibration Blank	Y (360.074 nm)	0.93 (Ratio)	0.91	0.93 (Ratio)	797193.91
11/1/2017 00:57:29	Continuing Calibration Blank	Y_R (360.074 nm)	0.93 (Ratio)	0.91	0.93 (Ratio)	797557.54

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 00:57:29	Continuing Calibration Blank	Zn (213.857 nm)	0.0009 (ppm)	15.29	0.0009 (ppm)	-1.5374
11/1/2017 01:00:48	Contract Required Detection Limit	Ag (328.068 nm)	0.0097 (ppm)	1.08	0.0097 (ppm)	589.8697
11/1/2017 01:00:48	Contract Required Detection Limit	Al (394.401 nm)	0.1771 (ppm)	1.38	0.1771 (ppm)	2392.6721
11/1/2017 01:00:48	Contract Required Detection Limit	As (188.980 nm)	0.0198 (ppm)	8.07	0.0198 (ppm)	16.2743
11/1/2017 01:00:48	Contract Required Detection Limit	B (249.772 nm)	0.1943 (ppm)	0.46	0.1943 (ppm)	5412.9853
11/1/2017 01:00:48	Contract Required Detection Limit	Ba (230.424 nm)	0.2192 (ppm)	1.34	0.2192 (ppm)	7371.4791
11/1/2017 01:00:48	Contract Required Detection Limit	Be (313.107 nm)	0.0050 (ppm)	0.92	0.0050 (ppm)	6887.2833
11/1/2017 01:00:48	Contract Required Detection Limit	Ca (227.547 nm)	0.9858 (ppm)	1.97	0.9858 (ppm)	59.9079
11/1/2017 01:00:48	Contract Required Detection Limit	Cd (214.439 nm)	0.0107 (ppm)	1.60	0.0107 (ppm)	245.0684
11/1/2017 01:00:48	Contract Required Detection Limit	Co (230.786 nm)	0.0536 (ppm)	1.59	0.0536 (ppm)	525.5130
11/1/2017 01:00:48	Contract Required Detection Limit	Cr (267.716 nm)	0.0106 (ppm)	0.93	0.0106 (ppm)	522.2369
11/1/2017 01:00:48	Contract Required Detection Limit	Cu (327.395 nm)	0.0244 (ppm)	0.80	0.0244 (ppm)	1525.5322
11/1/2017 01:00:48	Contract Required Detection Limit	Fe (234.350 nm)	0.1075 (ppm)	1.09	0.1075 (ppm)	1212.9224
11/1/2017 01:00:48	Contract Required Detection Limit	K (766.491 nm)	0.9517 (ppm)	0.84	0.9517 (ppm)	2862.6641
11/1/2017 01:00:48	Contract Required Detection Limit	Mg (279.078 nm)	1.0273 (ppm)	0.44	1.0273 (ppm)	1981.7739
11/1/2017 01:00:48	Contract Required Detection Limit	Mn (257.610 nm) 123%	0.0184 R (ppm)	3.72	0.0184 (ppm)	5765.0675 R
11/1/2017 01:00:48	Contract Required Detection Limit	Mo (202.032 nm)	0.0262 (ppm)	0.96	0.0262 (ppm)	274.5918
11/1/2017 01:00:48	Contract Required Detection Limit	Na (588.995 nm)	0.9610 (ppm)	0.60	0.9610 (ppm)	38241.7946
11/1/2017 01:00:48	Contract Required Detection Limit	Ni (230.299 nm)	0.0420 (ppm)	1.01	0.0420 (ppm)	262.4051
11/1/2017 01:00:48	Contract Required Detection Limit	Pb (220.353 nm)	0.0100 (ppm)	10.58	0.0100 (ppm)	26.5090
11/1/2017 01:00:48	Contract Required Detection Limit	Sb (217.582 nm)	0.0593 (ppm)	5.73	0.0593 (ppm)	81.9326
11/1/2017 01:00:48	Contract Required Detection Limit	Se (196.026 nm) 120%	0.0120 R (ppm)	28.02	0.0120 (ppm)	11.0753 R
11/1/2017 01:00:48	Contract Required Detection Limit	Sn (189.925 nm)	0.5263 (ppm)	0.69	0.5263 (ppm)	637.2613
11/1/2017 01:00:48	Contract Required Detection Limit	Sr (216.596 nm)	0.1066 (ppm)	1.27	0.1066 (ppm)	1513.5119
11/1/2017 01:00:48	Contract Required Detection Limit	Ti (336.122 nm)	0.0516 (ppm)	0.85	0.0516 (ppm)	10317.8915
11/1/2017 01:00:48	Contract Required Detection Limit	Tl (351.923 nm)	0.0200 (ppm)	15.13	0.0200 (ppm)	62.1904
11/1/2017 01:00:48	Contract Required Detection Limit	V (292.401 nm)	0.0514 (ppm)	1.24	0.0514 (ppm)	1927.5322
11/1/2017 01:00:48	Contract Required Detection Limit	Y (360.074 nm)	0.94 (Ratio)	0.77	0.94 (Ratio)	801406.29
11/1/2017 01:00:48	Contract Required Detection Limit	Y_R (360.074 nm)	0.94 (Ratio)	0.76	0.94 (Ratio)	801717.22
11/1/2017 01:00:48	Contract Required Detection Limit	Zn (213.857 nm)	0.0204 (ppm)	2.42	0.0204 (ppm)	545.3344
11/1/2017 01:04:07	Interference Check Solution A	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-103.7624
11/1/2017 01:04:07	Interference Check Solution A	Al (394.401 nm)	262.6795 o (ppm)	0.44	262.6795 (ppm)	3361819.0039
11/1/2017 01:04:07	Interference Check Solution A	As (188.980 nm)	0.0045 (ppm)	57.16	0.0045 (ppm)	2.5618
11/1/2017 01:04:07	Interference Check Solution A	B (249.772 nm)	0.0425 (ppm)	1.52	0.0425 (ppm)	1210.3335
11/1/2017 01:04:07	Interference Check Solution A	Ba (230.424 nm)	0.0009 (ppm)	14.07	0.0009 (ppm)	33.7738
11/1/2017 01:04:07	Interference Check Solution A	Be (313.107 nm)	0.0000 u (ppm)	19.61	0.0000 (ppm)	-588.9132
11/1/2017 01:04:07	Interference Check Solution A	Ca (227.547 nm)	264.8056 o (ppm)	0.39	264.8056 (ppm)	14911.7543
11/1/2017 01:04:07	Interference Check Solution A	Cd (214.439 nm)	-0.0009 u (ppm)	35.21	-0.0009 (ppm)	-6.9563
11/1/2017 01:04:07	Interference Check Solution A	Co (230.786 nm)	-0.0027 u (ppm)	13.72	-0.0027 (ppm)	-29.7240
11/1/2017 01:04:07	Interference Check Solution A	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	1.1924
11/1/2017 01:04:07	Interference Check Solution A	Cu (327.395 nm)	0.0008 (ppm)	19.41	0.0008 (ppm)	60.7433
11/1/2017 01:04:07	Interference Check Solution A	Fe (234.350 nm)	91.9045 o (ppm)	0.60	91.9045 (ppm)	1026515.6944
11/1/2017 01:04:07	Interference Check Solution A	K (766.491 nm)	0.0865 (ppm)	9.22	0.0865 (ppm)	252.0564
11/1/2017 01:04:07	Interference Check Solution A	Mg (279.078 nm)	272.9703 o (ppm)	0.38	272.9703 (ppm)	526745.6521
11/1/2017 01:04:07	Interference Check Solution A	Mn (257.610 nm)	0.0041 (ppm)	13.47	0.0041 (ppm)	1290.3205
11/1/2017 01:04:07	Interference Check Solution A	Mo (202.032 nm)	0.0008 (ppm)	72.38	0.0008 (ppm)	14.8678
11/1/2017 01:04:07	Interference Check Solution A	Na (588.995 nm)	-0.0261 u (ppm)	1.40	-0.0261 (ppm)	-6647.0746
11/1/2017 01:04:07	Interference Check Solution A	Ni (230.299 nm)	-0.0026 u (ppm)	7.91	-0.0026 (ppm)	-38.3664
11/1/2017 01:04:07	Interference Check Solution A	Pb (220.353 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	1.9752
11/1/2017 01:04:07	Interference Check Solution A	Sb (217.582 nm)	-0.0048 u (ppm)	94.93	-0.0048 (ppm)	-5.8236
11/1/2017 01:04:07	Interference Check Solution A	Se (196.026 nm)	0.0062 (ppm)	34.37	0.0062 (ppm)	6.0594

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:04:07	Interference Check Solution A	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.4807
11/1/2017 01:04:07	Interference Check Solution A	Sr (216.596 nm)	0.0192 (ppm)	1.24	0.0192 (ppm)	271.5979
11/1/2017 01:04:07	Interference Check Solution A	Ti (336.122 nm)	0.0019 (ppm)	6.08	0.0019 (ppm)	-94.1978
11/1/2017 01:04:07	Interference Check Solution A	Tl (351.923 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	11.9266
11/1/2017 01:04:07	Interference Check Solution A	V (292.401 nm)	0.0035 K (ppm)	7.89	0.0035 (ppm)	231.4668 K
11/1/2017 01:04:07	Interference Check Solution A	Y (360.074 nm)	0.84 (Ratio)	0.87	0.84 (Ratio)	716573.85
11/1/2017 01:04:07	Interference Check Solution A	Y_R (360.074 nm)	0.84 (Ratio)	0.87	0.84 (Ratio)	716734.13
11/1/2017 01:04:07	Interference Check Solution A	Zn (213.857 nm)	0.0118 K (ppm)	1.39	0.0118 (ppm)	304.1379 K
11/1/2017 01:07:25	Interference Check Solution AB	Ag (328.068 nm)	0.2171 (ppm)	0.28	0.2171 (ppm)	15409.5293
11/1/2017 01:07:25	Interference Check Solution AB	Al (394.401 nm)	263.5258 o (ppm)	0.40	263.5258 (ppm)	3372649.2993
11/1/2017 01:07:25	Interference Check Solution AB	As (188.980 nm)	0.1068 (ppm)	5.37	0.1068 (ppm)	93.9859
11/1/2017 01:07:25	Interference Check Solution AB	B (249.772 nm)	0.0424 (ppm)	0.67	0.0424 (ppm)	1207.5504
11/1/2017 01:07:25	Interference Check Solution AB	Ba (230.424 nm)	0.5411 (ppm)	0.10	0.5411 (ppm)	18194.0519
11/1/2017 01:07:25	Interference Check Solution AB	Be (313.107 nm)	0.5158 (ppm)	0.36	0.5158 (ppm)	761479.6232
11/1/2017 01:07:25	Interference Check Solution AB	Ca (227.547 nm)	263.6001 o (ppm)	0.54	263.6001 (ppm)	14843.8883
11/1/2017 01:07:25	Interference Check Solution AB	Cd (214.439 nm)	1.0009 (ppm)	0.11	1.0009 (ppm)	21682.7761
11/1/2017 01:07:25	Interference Check Solution AB	Co (230.786 nm)	0.5101 (ppm)	0.15	0.5101 (ppm)	5032.2022
11/1/2017 01:07:25	Interference Check Solution AB	Cr (267.716 nm)	0.5114 (ppm)	0.16	0.5114 (ppm)	25320.6555
11/1/2017 01:07:25	Interference Check Solution AB	Cu (327.395 nm)	0.5200 (ppm)	0.25	0.5200 (ppm)	32298.2831
11/1/2017 01:07:25	Interference Check Solution AB	Fe (234.350 nm)	92.2342 o (ppm)	0.15	92.2342 (ppm)	1030198.8480
11/1/2017 01:07:25	Interference Check Solution AB	K (766.491 nm)	0.0594 (ppm)	10.96	0.0594 (ppm)	170.2769
11/1/2017 01:07:25	Interference Check Solution AB	Mg (279.078 nm)	273.9238 o (ppm)	0.18	273.9238 (ppm)	528585.7141
11/1/2017 01:07:25	Interference Check Solution AB	Mn (257.610 nm)	0.5110 (ppm)	0.14	0.5110 (ppm)	160171.1235
11/1/2017 01:07:25	Interference Check Solution AB	Mo (202.032 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	11.8949
11/1/2017 01:07:25	Interference Check Solution AB	Na (588.995 nm)	-0.0178 u (ppm)	6.70	-0.0178 (ppm)	-6270.0266
11/1/2017 01:07:25	Interference Check Solution AB	Ni (230.299 nm)	0.9829 (ppm)	0.37	0.9829 (ppm)	6601.1035
11/1/2017 01:07:25	Interference Check Solution AB	Pb (220.353 nm)	0.0500 (ppm)	2.78	0.0500 (ppm)	111.8215
11/1/2017 01:07:25	Interference Check Solution AB	Sb (217.582 nm)	0.6215 (ppm)	0.55	0.6215 (ppm)	850.7437
11/1/2017 01:07:25	Interference Check Solution AB	Se (196.026 nm)	0.0582 (ppm)	8.61	0.0582 (ppm)	50.6561
11/1/2017 01:07:25	Interference Check Solution AB	Sn (189.925 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	1.5271
11/1/2017 01:07:25	Interference Check Solution AB	Sr (216.596 nm)	0.0198 (ppm)	1.08	0.0198 (ppm)	281.0582
11/1/2017 01:07:25	Interference Check Solution AB	Ti (336.122 nm)	0.0014 (ppm)	5.04	0.0014 (ppm)	-189.7004
11/1/2017 01:07:25	Interference Check Solution AB	Tl (351.923 nm)	0.1153 (ppm)	1.00	0.1153 (ppm)	324.0469
11/1/2017 01:07:25	Interference Check Solution AB	V (292.401 nm)	0.5192 (ppm)	0.34	0.5192 (ppm)	18461.7469
11/1/2017 01:07:25	Interference Check Solution AB	Y (360.074 nm)	0.84 (Ratio)	0.70	0.84 (Ratio)	714797.79
11/1/2017 01:07:25	Interference Check Solution AB	Y_R (360.074 nm)	0.84 (Ratio)	0.70	0.84 (Ratio)	714929.67
11/1/2017 01:07:25	Interference Check Solution AB	Zn (213.857 nm)	1.0648 (ppm)	0.16	1.0648 (ppm)	29760.4069
11/1/2017 01:10:45	Continuing Calibration Verification1	Ag (328.068 nm)	0.4988 (ppm)	0.29	0.4988 (ppm)	35532.9265
11/1/2017 01:10:45	Continuing Calibration Verification1	Al (394.401 nm)	9.6628 (ppm)	0.71	9.6628 (ppm)	123787.0076
11/1/2017 01:10:45	Continuing Calibration Verification1	As (188.980 nm)	0.9911 (ppm)	0.29	0.9911 (ppm)	884.5153
11/1/2017 01:10:45	Continuing Calibration Verification1	B (249.772 nm)	2.4624 (ppm)	0.28	2.4624 (ppm)	68210.8454
11/1/2017 01:10:45	Continuing Calibration Verification1	Ba (230.424 nm)	10.6150 (ppm)	0.48	10.6150 (ppm)	356866.5017
11/1/2017 01:10:45	Continuing Calibration Verification1	Be (313.107 nm)	0.2591 (ppm)	0.45	0.2591 (ppm)	382180.1328
11/1/2017 01:10:45	Continuing Calibration Verification1	Ca (227.547 nm)	24.3232 (ppm)	0.90	24.3232 (ppm)	1373.6961
11/1/2017 01:10:45	Continuing Calibration Verification1	Cd (214.439 nm)	0.5217 (ppm)	0.48	0.5217 (ppm)	11307.3601
11/1/2017 01:10:45	Continuing Calibration Verification1	Co (230.786 nm)	2.6771 (ppm)	0.30	2.6771 (ppm)	26426.7501
11/1/2017 01:10:45	Continuing Calibration Verification1	Cr (267.716 nm)	0.5260 (ppm)	0.26	0.5260 (ppm)	26042.7858
11/1/2017 01:10:45	Continuing Calibration Verification1	Cu (327.395 nm)	1.1952 (ppm)	0.36	1.1952 (ppm)	74217.2688
11/1/2017 01:10:45	Continuing Calibration Verification1	Fe (234.350 nm)	5.0615 (ppm)	0.59	5.0615 (ppm)	56545.3369
11/1/2017 01:10:45	Continuing Calibration Verification1	K (766.491 nm)	24.3219 (ppm)	0.44	24.3219 (ppm)	73377.2837
11/1/2017 01:10:45	Continuing Calibration Verification1	Mg (279.078 nm)	26.1210 (ppm)	0.46	26.1210 (ppm)	50404.5873

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:10:45	Continuing Calibration Verification1	Mn (257.610 nm)	0.7754 (ppm)	0.31	0.7754 (ppm)	243037.7363
11/1/2017 01:10:45	Continuing Calibration Verification1	Mo (202.032 nm)	2.4875 (ppm)	0.22	2.4875 (ppm)	25363.7792
11/1/2017 01:10:45	Continuing Calibration Verification1	Na (588.995 nm)	24.4589 (ppm)	0.52	24.4589 (ppm)	1106802.9909
11/1/2017 01:10:45	Continuing Calibration Verification1	Ni (230.299 nm)	2.0999 (ppm)	0.36	2.0999 (ppm)	14125.9271
11/1/2017 01:10:45	Continuing Calibration Verification1	Pb (220.353 nm)	0.5170 (ppm)	0.49	0.5170 (ppm)	1109.5777
11/1/2017 01:10:45	Continuing Calibration Verification1	Sb (217.582 nm)	4.9961 (ppm)	0.25	4.9961 (ppm)	6833.2096
11/1/2017 01:10:45	Continuing Calibration Verification1	Se (196.026 nm)	0.5083 (ppm)	0.67	0.5083 (ppm)	436.1338
11/1/2017 01:10:45	Continuing Calibration Verification1	Sn (189.925 nm)	5.3256 (ppm)	0.61	5.3256 (ppm)	6448.8912
11/1/2017 01:10:45	Continuing Calibration Verification1	Sr (216.596 nm)	2.6538 (ppm)	0.38	2.6538 (ppm)	37679.0708
11/1/2017 01:10:45	Continuing Calibration Verification1	Ti (336.122 nm)	2.5408 (ppm)	0.32	2.5408 (ppm)	531144.3160
11/1/2017 01:10:45	Continuing Calibration Verification1	Tl (351.923 nm)	0.9968 (ppm)	0.16	0.9968 (ppm)	2745.2601
11/1/2017 01:10:45	Continuing Calibration Verification1	V (292.401 nm)	2.5809 (ppm)	0.35	2.5809 (ppm)	91335.8435
11/1/2017 01:10:45	Continuing Calibration Verification1	Y (360.074 nm)	0.91 (Ratio)	0.82	0.91 (Ratio)	772467.88
11/1/2017 01:10:45	Continuing Calibration Verification1	Y_R (360.074 nm)	0.90 (Ratio)	0.82	0.90 (Ratio)	772654.68
11/1/2017 01:10:45	Continuing Calibration Verification1	Zn (213.857 nm)	1.0453 (ppm)	0.39	1.0453 (ppm)	29216.4704
11/1/2017 01:14:04	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-103.0683
11/1/2017 01:14:04	Continuing Calibration Blank1	Al (394.401 nm)	0.0281 (ppm)	28.33	0.0281 (ppm)	485.3150
11/1/2017 01:14:04	Continuing Calibration Blank1	As (188.980 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	-0.1963
11/1/2017 01:14:04	Continuing Calibration Blank1	B (249.772 nm)	0.0048 (ppm)	27.74	0.0048 (ppm)	167.0985
11/1/2017 01:14:04	Continuing Calibration Blank1	Ba (230.424 nm)	0.0045 (ppm)	33.76	0.0045 (ppm)	154.5556
11/1/2017 01:14:04	Continuing Calibration Blank1	Be (313.107 nm)	0.0002 (ppm)	27.00	0.0002 (ppm)	-293.6666
11/1/2017 01:14:04	Continuing Calibration Blank1	Ca (227.547 nm)	0.0134 u (ppm)	> 100.00	0.0134 (ppm)	5.1678
11/1/2017 01:14:04	Continuing Calibration Blank1	Cd (214.439 nm)	0.0003 (ppm)	53.98	0.0003 (ppm)	20.5821
11/1/2017 01:14:04	Continuing Calibration Blank1	Co (230.786 nm)	0.0013 (ppm)	44.12	0.0013 (ppm)	9.1009
11/1/2017 01:14:04	Continuing Calibration Blank1	Cr (267.716 nm)	0.0002 (ppm)	97.37	0.0002 (ppm)	8.8447
11/1/2017 01:14:04	Continuing Calibration Blank1	Cu (327.395 nm)	0.0005 (ppm)	28.26	0.0005 (ppm)	45.9848
11/1/2017 01:14:04	Continuing Calibration Blank1	Fe (234.350 nm)	0.0153 (ppm)	26.95	0.0153 (ppm)	183.1224
11/1/2017 01:14:04	Continuing Calibration Blank1	K (766.491 nm)	0.0498 (ppm)	21.24	0.0498 (ppm)	141.4101
11/1/2017 01:14:04	Continuing Calibration Blank1	Mg (279.078 nm)	0.0386 (ppm)	26.47	0.0386 (ppm)	73.7495
11/1/2017 01:14:04	Continuing Calibration Blank1	Mn (257.610 nm)	0.0015 (ppm)	8.53	0.0015 (ppm)	470.6291
11/1/2017 01:14:04	Continuing Calibration Blank1	Mo (202.032 nm)	0.0032 (ppm)	9.24	0.0032 (ppm)	39.4983
11/1/2017 01:14:04	Continuing Calibration Blank1	Na (588.995 nm)	-0.0219 u (ppm)	16.72	-0.0219 (ppm)	-6454.4884
11/1/2017 01:14:04	Continuing Calibration Blank1	Ni (230.299 nm)	0.0008 (ppm)	64.16	0.0008 (ppm)	-15.1377
11/1/2017 01:14:04	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	3.8203
11/1/2017 01:14:04	Continuing Calibration Blank1	Sb (217.582 nm)	0.0031 (ppm)	29.46	0.0031 (ppm)	4.9987
11/1/2017 01:14:04	Continuing Calibration Blank1	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.7113
11/1/2017 01:14:04	Continuing Calibration Blank1	Sn (189.925 nm)	0.0030 (ppm)	46.89	0.0030 (ppm)	3.6200
11/1/2017 01:14:04	Continuing Calibration Blank1	Sr (216.596 nm)	0.0007 (ppm)	58.35	0.0007 (ppm)	9.8768
11/1/2017 01:14:04	Continuing Calibration Blank1	Ti (336.122 nm)	0.0018 (ppm)	20.29	0.0018 (ppm)	-115.5486
11/1/2017 01:14:04	Continuing Calibration Blank1	Tl (351.923 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	7.2973
11/1/2017 01:14:04	Continuing Calibration Blank1	V (292.401 nm)	0.0012 (ppm)	45.59	0.0012 (ppm)	149.9311
11/1/2017 01:14:04	Continuing Calibration Blank1	Y (360.074 nm)	0.94 (Ratio)	0.74	0.94 (Ratio)	802811.40
11/1/2017 01:14:04	Continuing Calibration Blank1	Y_R (360.074 nm)	0.94 (Ratio)	0.74	0.94 (Ratio)	802993.50
11/1/2017 01:14:04	Continuing Calibration Blank1	Zn (213.857 nm)	0.0005 (ppm)	50.06	0.0005 (ppm)	-13.0844
11/1/2017 01:17:22	PBW-301955	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-109.9534
11/1/2017 01:17:22	PBW-301955	Al (394.401 nm)	0.0030 (ppm)	32.23	0.0030 (ppm)	163.7399
11/1/2017 01:17:22	PBW-301955	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-1.2027
11/1/2017 01:17:22	PBW-301955	B (249.772 nm)	0.0019 (ppm)	7.35	0.0019 (ppm)	87.3392
11/1/2017 01:17:22	PBW-301955	Ba (230.424 nm)	0.0002 (ppm)	30.12	0.0002 (ppm)	10.2513
11/1/2017 01:17:22	PBW-301955	Be (313.107 nm)	0.0000 (ppm)	94.54	0.0000 (ppm)	-515.6404
11/1/2017 01:17:22	PBW-301955	Ca (227.547 nm)	0.0037 u (ppm)	> 100.00	0.0037 (ppm)	4.6201

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:17:22	PBW-301955	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.4212
11/1/2017 01:17:22	PBW-301955	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.2044
11/1/2017 01:17:22	PBW-301955	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-5.2016
11/1/2017 01:17:22	PBW-301955	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.8244
11/1/2017 01:17:22	PBW-301955	Fe (234.350 nm)	0.0020 (ppm)	7.30	0.0020 (ppm)	33.9773
11/1/2017 01:17:22	PBW-301955	K (766.491 nm)	0.0229 (ppm)	17.47	0.0229 (ppm)	60.1237
11/1/2017 01:17:22	PBW-301955	Mg (279.078 nm)	0.0025 (ppm)	39.61	0.0025 (ppm)	4.1894
11/1/2017 01:17:22	PBW-301955	Mn (257.610 nm)	0.0017 (ppm)	34.76	0.0017 (ppm)	546.5567
11/1/2017 01:17:22	PBW-301955	Mo (202.032 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	9.7438
11/1/2017 01:17:22	PBW-301955	Na (588.995 nm)	-0.0294 u (ppm)	1.36	-0.0294 (ppm)	-6798.3262
11/1/2017 01:17:22	PBW-301955	Ni (230.299 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-20.3492
11/1/2017 01:17:22	PBW-301955	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.2296
11/1/2017 01:17:22	PBW-301955	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	1.5223
11/1/2017 01:17:22	PBW-301955	Se (196.026 nm)	0.0013 (ppm)	49.87	0.0013 (ppm)	1.9251
11/1/2017 01:17:22	PBW-301955	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.7535
11/1/2017 01:17:22	PBW-301955	Sr (216.596 nm)	0.0001 (ppm)	81.64	0.0001 (ppm)	0.5907
11/1/2017 01:17:22	PBW-301955	Ti (336.122 nm)	0.0007 (ppm)	11.30	0.0007 (ppm)	-339.9074
11/1/2017 01:17:22	PBW-301955	Tl (351.923 nm)	0.0035 (ppm)	47.05	0.0035 (ppm)	16.9945
11/1/2017 01:17:22	PBW-301955	V (292.401 nm)	0.0002 (ppm)	59.74	0.0002 (ppm)	115.8494
11/1/2017 01:17:22	PBW-301955	Y (360.074 nm)	0.95 (Ratio)	0.70	0.95 (Ratio)	812136.94
11/1/2017 01:17:22	PBW-301955	Y_R (360.074 nm)	0.95 (Ratio)	0.70	0.95 (Ratio)	812374.48
11/1/2017 01:17:22	PBW-301955	Zn (213.857 nm)	0.0017 (ppm)	3.18	0.0017 (ppm)	20.2803
11/1/2017 01:20:41	LCSW-301955	Ag (328.068 nm)	0.0505 (ppm)	0.26	0.0505 (ppm)	3501.6449
11/1/2017 01:20:41	LCSW-301955	Al (394.401 nm)	1.8746 (ppm)	0.65	1.8746 (ppm)	24117.0740
11/1/2017 01:20:41	LCSW-301955	As (188.980 nm)	0.0427 (ppm)	7.82	0.0427 (ppm)	36.6740
11/1/2017 01:20:41	LCSW-301955	B (249.772 nm)	0.9864 (ppm)	0.35	0.9864 (ppm)	27345.4947
11/1/2017 01:20:41	LCSW-301955	Ba (230.424 nm)	2.1503 (ppm)	0.58	2.1503 (ppm)	72292.5161
11/1/2017 01:20:41	LCSW-301955	Be (313.107 nm)	0.0518 (ppm)	0.48	0.0518 (ppm)	75926.0306
11/1/2017 01:20:41	LCSW-301955	Ca (227.547 nm)	1.8845 (ppm)	0.78	1.8845 (ppm)	110.5002
11/1/2017 01:20:41	LCSW-301955	Cd (214.439 nm)	0.0540 (ppm)	0.42	0.0540 (ppm)	1183.3070
11/1/2017 01:20:41	LCSW-301955	Co (230.786 nm)	0.5343 (ppm)	0.32	0.5343 (ppm)	5271.6375
11/1/2017 01:20:41	LCSW-301955	Cr (267.716 nm)	0.2080 (ppm)	0.53	0.2080 (ppm)	10295.8697
11/1/2017 01:20:41	LCSW-301955	Cu (327.395 nm)	0.2411 (ppm)	0.60	0.2411 (ppm)	14982.3811
11/1/2017 01:20:41	LCSW-301955	Fe (234.350 nm)	1.0151 (ppm)	0.50	1.0151 (ppm)	11350.1466
11/1/2017 01:20:41	LCSW-301955	K (766.491 nm)	19.0149 (ppm)	1.00	19.0149 (ppm)	57364.5220
11/1/2017 01:20:41	LCSW-301955	Mg (279.078 nm)	2.0798 (ppm)	0.32	2.0798 (ppm)	4012.6752
11/1/2017 01:20:41	LCSW-301955	Mn (257.610 nm)	0.5126 (ppm)	0.42	0.5126 (ppm)	160670.0260
11/1/2017 01:20:41	LCSW-301955	Mo (202.032 nm)	0.4964 (ppm)	0.25	0.4964 (ppm)	5067.4410
11/1/2017 01:20:41	LCSW-301955	Na (588.995 nm)	19.2806 (ppm)	0.53	19.2806 (ppm)	871320.5661
11/1/2017 01:20:41	LCSW-301955	Ni (230.299 nm)	0.5319 (ppm)	0.29	0.5319 (ppm)	3562.6648
11/1/2017 01:20:41	LCSW-301955	Pb (220.353 nm)	0.5324 (ppm)	0.46	0.5324 (ppm)	1142.5359
11/1/2017 01:20:41	LCSW-301955	Sb (217.582 nm)	0.5104 (ppm)	1.59	0.5104 (ppm)	698.8605
11/1/2017 01:20:41	LCSW-301955	Se (196.026 nm)	1.1286 o (ppm)	0.25	1.1286 (ppm)	967.3269
11/1/2017 01:20:41	LCSW-301955	Sn (189.925 nm)	5.3145 (ppm)	0.61	5.3145 (ppm)	6435.5143
11/1/2017 01:20:41	LCSW-301955	Sr (216.596 nm)	2.1538 (ppm)	0.65	2.1538 (ppm)	30580.2817
11/1/2017 01:20:41	LCSW-301955	Ti (336.122 nm)	0.4980 (ppm)	0.41	0.4980 (ppm)	103723.3020
11/1/2017 01:20:41	LCSW-301955	Tl (351.923 nm)	1.8958 (ppm)	0.44	1.8958 (ppm)	5214.4432
11/1/2017 01:20:41	LCSW-301955	V (292.401 nm)	0.5134 (ppm)	0.38	0.5134 (ppm)	18255.2779
11/1/2017 01:20:41	LCSW-301955	Y (360.074 nm)	0.93 (Ratio)	0.70	0.93 (Ratio)	791849.48
11/1/2017 01:20:41	LCSW-301955	Y_R (360.074 nm)	0.93 (Ratio)	0.70	0.93 (Ratio)	792007.45
11/1/2017 01:20:41	LCSW-301955	Zn (213.857 nm)	0.5328 (ppm)	0.26	0.5328 (ppm)	14878.3890

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:23:59	R1710073-001	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-108.8798
11/1/2017 01:23:59	R1710073-001	Al (394.401 nm)	0.2939 (ppm)	0.90	0.2939 (ppm)	3887.5757
11/1/2017 01:23:59	R1710073-001	As (188.980 nm)	0.2584 (ppm)	1.44	0.2584 (ppm)	229.5251
11/1/2017 01:23:59	R1710073-001	B (249.772 nm)	0.0113 (ppm)	5.63	0.0113 (ppm)	345.8912
11/1/2017 01:23:59	R1710073-001	Ba (230.424 nm)	0.0524 (ppm)	1.19	0.0524 (ppm)	1763.9329
11/1/2017 01:23:59	R1710073-001	Be (313.107 nm)	0.0001 (ppm)	15.88	0.0001 (ppm)	-444.3986
11/1/2017 01:23:59	R1710073-001	Ca (227.547 nm)	25.6027 (ppm)	0.92	25.6027 (ppm)	1445.7309
11/1/2017 01:23:59	R1710073-001	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	13.8135
11/1/2017 01:23:59	R1710073-001	Co (230.786 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	-0.2271
11/1/2017 01:23:59	R1710073-001	Cr (267.716 nm)	0.0038 (ppm)	2.13	0.0038 (ppm)	184.6526
11/1/2017 01:23:59	R1710073-001	Cu (327.395 nm)	0.0034 (ppm)	4.24	0.0034 (ppm)	224.4028
11/1/2017 01:23:59	R1710073-001	Fe (234.350 nm)	0.3552 (ppm)	0.64	0.3552 (ppm)	3978.7097
11/1/2017 01:23:59	R1710073-001	K (766.491 nm)	1.1429 (ppm)	1.43	1.1429 (ppm)	3439.5884
11/1/2017 01:23:59	R1710073-001	Mg (279.078 nm)	3.5422 (ppm)	0.51	3.5422 (ppm)	6834.6844
11/1/2017 01:23:59	R1710073-001	Mn (257.610 nm)	0.4013 (ppm)	0.24	0.4013 (ppm)	125780.2680
11/1/2017 01:23:59	R1710073-001	Mo (202.032 nm)	0.0049 (ppm)	4.96	0.0049 (ppm)	57.4862
11/1/2017 01:23:59	R1710073-001	Na (588.995 nm)	12.0977 (ppm)	0.64	12.0977 (ppm)	544681.5305
11/1/2017 01:23:59	R1710073-001	Ni (230.299 nm)	-0.0036 u (ppm)	27.62	-0.0036 (ppm)	-44.6847
11/1/2017 01:23:59	R1710073-001	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	3.7703
11/1/2017 01:23:59	R1710073-001	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	1.0289
11/1/2017 01:23:59	R1710073-001	Se (196.026 nm)	0.0022 u (ppm)	> 100.00	0.0022 (ppm)	2.6839
11/1/2017 01:23:59	R1710073-001	Sn (189.925 nm)	0.0017 (ppm)	54.09	0.0017 (ppm)	1.9289
11/1/2017 01:23:59	R1710073-001	Sr (216.596 nm)	0.1102 (ppm)	0.32	0.1102 (ppm)	1564.3667
11/1/2017 01:23:59	R1710073-001	Tl (336.122 nm)	0.0096 (ppm)	8.86	0.0096 (ppm)	1523.0814
11/1/2017 01:23:59	R1710073-001	Tl (351.923 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	11.1816
11/1/2017 01:23:59	R1710073-001	V (292.401 nm)	0.0007 (ppm)	8.73	0.0007 (ppm)	134.8706
11/1/2017 01:23:59	R1710073-001	Y (360.074 nm)	0.93 (Ratio)	0.59	0.93 (Ratio)	795811.28
11/1/2017 01:23:59	R1710073-001	Y_R (360.074 nm)	0.93 (Ratio)	0.59	0.93 (Ratio)	795988.44
11/1/2017 01:23:59	R1710073-001	Zn (213.857 nm)	0.0144 (ppm)	0.43	0.0144 (ppm)	375.2626
11/1/2017 01:27:18	R1710073-002	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-98.1888
11/1/2017 01:27:18	R1710073-002	Al (394.401 nm)	0.0635 (ppm)	1.70	0.0635 (ppm)	938.0814
11/1/2017 01:27:18	R1710073-002	As (188.980 nm)	0.2519 (ppm)	2.11	0.2519 (ppm)	223.7360
11/1/2017 01:27:18	R1710073-002	B (249.772 nm)	0.0060 (ppm)	2.60	0.0060 (ppm)	200.6154
11/1/2017 01:27:18	R1710073-002	Ba (230.424 nm)	0.0124 (ppm)	0.88	0.0124 (ppm)	416.7225
11/1/2017 01:27:18	R1710073-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-521.6492
11/1/2017 01:27:18	R1710073-002	Ca (227.547 nm)	24.2414 (ppm)	0.67	24.2414 (ppm)	1369.0917
11/1/2017 01:27:18	R1710073-002	Cd (214.439 nm)	0.0001 (ppm)	74.99	0.0001 (ppm)	15.1568
11/1/2017 01:27:18	R1710073-002	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.5498
11/1/2017 01:27:18	R1710073-002	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	1.3235
11/1/2017 01:27:18	R1710073-002	Cu (327.395 nm)	0.0007 (ppm)	16.04	0.0007 (ppm)	56.7227
11/1/2017 01:27:18	R1710073-002	Fe (234.350 nm)	0.0704 (ppm)	1.14	0.0704 (ppm)	798.1903
11/1/2017 01:27:18	R1710073-002	K (766.491 nm)	1.0338 (ppm)	0.85	1.0338 (ppm)	3110.4764
11/1/2017 01:27:18	R1710073-002	Mg (279.078 nm)	3.4588 (ppm)	0.63	3.4588 (ppm)	6673.7250
11/1/2017 01:27:18	R1710073-002	Mn (257.610 nm)	0.3932 (ppm)	0.47	0.3932 (ppm)	123243.2947
11/1/2017 01:27:18	R1710073-002	Mo (202.032 nm)	0.0038 (ppm)	7.44	0.0038 (ppm)	46.0408
11/1/2017 01:27:18	R1710073-002	Na (588.995 nm)	12.0537 (ppm)	0.82	12.0537 (ppm)	542678.5211
11/1/2017 01:27:18	R1710073-002	Ni (230.299 nm)	-0.0065 u (ppm)	9.12	-0.0065 (ppm)	-64.4113
11/1/2017 01:27:18	R1710073-002	Pb (220.353 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	2.2878
11/1/2017 01:27:18	R1710073-002	Sb (217.582 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	-2.3228
11/1/2017 01:27:18	R1710073-002	Se (196.026 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	1.8973
11/1/2017 01:27:18	R1710073-002	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.1359

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:27:18	R1710073-002	Sr (216.596 nm)	0.0948 (ppm)	0.67	0.0948 (ppm)	1345.1919
11/1/2017 01:27:18	R1710073-002	Tl (336.122 nm)	0.0022 (ppm)	1.52	0.0022 (ppm)	-22.7351
11/1/2017 01:27:18	R1710073-002	Tl (351.923 nm)	0.0024 (ppm)	56.19	0.0024 (ppm)	13.8777
11/1/2017 01:27:18	R1710073-002	V (292.401 nm)	0.0003 (ppm)	70.91	0.0003 (ppm)	119.0878
11/1/2017 01:27:18	R1710073-002	Y (360.074 nm)	0.94 (Ratio)	0.83	0.94 (Ratio)	797783.69
11/1/2017 01:27:18	R1710073-002	Y_R (360.074 nm)	0.93 (Ratio)	0.83	0.93 (Ratio)	797972.67
11/1/2017 01:27:18	R1710073-002	Zn (213.857 nm)	0.0043 (ppm)	0.87	0.0043 (ppm)	93.9320
11/1/2017 01:30:37	R1710073-003	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-102.0876
11/1/2017 01:30:37	R1710073-003	Al (394.401 nm)	0.0375 (ppm)	1.47	0.0375 (ppm)	605.2387
11/1/2017 01:30:37	R1710073-003	As (188.980 nm)	0.9314 (ppm)	1.67	0.9314 (ppm)	831.1350
11/1/2017 01:30:37	R1710073-003	B (249.772 nm)	0.2433 (ppm)	1.20	0.2433 (ppm)	6768.7992
11/1/2017 01:30:37	R1710073-003	Ba (230.424 nm)	0.0638 (ppm)	1.35	0.0638 (ppm)	2145.5658
11/1/2017 01:30:37	R1710073-003	Be (313.107 nm)	0.0001 (ppm)	12.44	0.0001 (ppm)	-442.3678
11/1/2017 01:30:37	R1710073-003	Ca (227.547 nm)	38.6422 (ppm)	1.93	38.6422 (ppm)	2179.7941
11/1/2017 01:30:37	R1710073-003	Cd (214.439 nm)	0.0002 (ppm)	57.04	0.0002 (ppm)	18.5123
11/1/2017 01:30:37	R1710073-003	Co (230.786 nm)	-0.0007 u (ppm)	21.88	-0.0007 (ppm)	-10.5783
11/1/2017 01:30:37	R1710073-003	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.2958
11/1/2017 01:30:37	R1710073-003	Cu (327.395 nm)	0.0003 (ppm)	49.51	0.0003 (ppm)	29.8336
11/1/2017 01:30:37	R1710073-003	Fe (234.350 nm)	19.2594 o (ppm)	1.39	19.2594 (ppm)	215125.3393
11/1/2017 01:30:37	R1710073-003	K (766.491 nm)	7.7947 (ppm)	1.56	7.7947 (ppm)	23510.1090
11/1/2017 01:30:37	R1710073-003	Mg (279.078 nm)	10.5066 (ppm)	1.50	10.5066 (ppm)	20273.6840
11/1/2017 01:30:37	R1710073-003	Mn (257.610 nm)	0.6520 (ppm)	1.30	0.6520 (ppm)	204379.4864
11/1/2017 01:30:37	R1710073-003	Mo (202.032 nm)	0.0057 (ppm)	4.15	0.0057 (ppm)	65.4543
11/1/2017 01:30:37	R1710073-003	Na (588.995 nm)	49.1364 (ppm)	1.62	49.1364 (ppm)	2229005.6124
11/1/2017 01:30:37	R1710073-003	Ni (230.299 nm)	-0.0019 u (ppm)	25.65	-0.0019 (ppm)	-33.3732
11/1/2017 01:30:37	R1710073-003	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	3.1487
11/1/2017 01:30:37	R1710073-003	Sb (217.582 nm)	-0.0025 u (ppm)	72.56	-0.0025 (ppm)	-2.5551
11/1/2017 01:30:37	R1710073-003	Se (196.026 nm)	-0.0036 u (ppm)	88.70	-0.0036 (ppm)	-2.3192
11/1/2017 01:30:37	R1710073-003	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.1433
11/1/2017 01:30:37	R1710073-003	Sr (216.596 nm)	0.2554 (ppm)	1.43	0.2554 (ppm)	3625.7650
11/1/2017 01:30:37	R1710073-003	Tl (336.122 nm)	0.0014 (ppm)	5.23	0.0014 (ppm)	-179.7010
11/1/2017 01:30:37	R1710073-003	Tl (351.923 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	6.1946
11/1/2017 01:30:37	R1710073-003	V (292.401 nm)	0.0012 (ppm)	12.34	0.0012 (ppm)	149.9510
11/1/2017 01:30:37	R1710073-003	Y (360.074 nm)	0.91 (Ratio)	1.53	0.91 (Ratio)	774574.06
11/1/2017 01:30:37	R1710073-003	Y_R (360.074 nm)	0.91 (Ratio)	1.53	0.91 (Ratio)	774732.69
11/1/2017 01:30:37	R1710073-003	Zn (213.857 nm)	0.0082 (ppm)	1.09	0.0082 (ppm)	203.5400
11/1/2017 01:33:56	R1710073-004	Ag (328.068 nm)	-0.0001 u (ppm)	84.59	-0.0001 (ppm)	-109.3338
11/1/2017 01:33:56	R1710073-004	Al (394.401 nm)	0.0216 (ppm)	2.28	0.0216 (ppm)	401.9081
11/1/2017 01:33:56	R1710073-004	As (188.980 nm)	0.8976 (ppm)	0.80	0.8976 (ppm)	800.9214
11/1/2017 01:33:56	R1710073-004	B (249.772 nm)	0.2434 (ppm)	0.39	0.2434 (ppm)	6771.5047
11/1/2017 01:33:56	R1710073-004	Ba (230.424 nm)	0.0620 (ppm)	0.85	0.0620 (ppm)	2087.2690
11/1/2017 01:33:56	R1710073-004	Be (313.107 nm)	0.0000 (ppm)	33.85	0.0000 (ppm)	-476.8839
11/1/2017 01:33:56	R1710073-004	Ca (227.547 nm)	38.2861 (ppm)	0.78	38.2861 (ppm)	2159.7461
11/1/2017 01:33:56	R1710073-004	Cd (214.439 nm)	0.0002 (ppm)	71.67	0.0002 (ppm)	18.7134
11/1/2017 01:33:56	R1710073-004	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.2108
11/1/2017 01:33:56	R1710073-004	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-5.2239
11/1/2017 01:33:56	R1710073-004	Cu (327.395 nm)	0.0002 (ppm)	33.82	0.0002 (ppm)	24.2275
11/1/2017 01:33:56	R1710073-004	Fe (234.350 nm)	18.6023 o (ppm)	0.56	18.6023 (ppm)	207785.6782
11/1/2017 01:33:56	R1710073-004	K (766.491 nm)	7.7401 (ppm)	0.52	7.7401 (ppm)	23345.2393
11/1/2017 01:33:56	R1710073-004	Mg (279.078 nm)	10.4167 (ppm)	0.51	10.4167 (ppm)	20100.3555
11/1/2017 01:33:56	R1710073-004	Mn (257.610 nm)	0.6523 (ppm)	0.48	0.6523 (ppm)	204465.9183

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:33:56	R1710073-004	Mo (202.032 nm)	0.0055 (ppm)	2.74	0.0055 (ppm)	63.4163
11/1/2017 01:33:56	R1710073-004	Na (588.995 nm)	49.1556 (ppm)	0.75	49.1556 (ppm)	2229877.9844
11/1/2017 01:33:56	R1710073-004	Ni (230.299 nm)	-0.0023 u (ppm)	31.97	-0.0023 (ppm)	-35.9378
11/1/2017 01:33:56	R1710073-004	Pb (220.353 nm)	-0.0023 u (ppm)	75.40	-0.0023 (ppm)	0.0954
11/1/2017 01:33:56	R1710073-004	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.3710
11/1/2017 01:33:56	R1710073-004	Se (196.026 nm)	-0.0035 u (ppm)	> 100.00	-0.0035 (ppm)	-2.2127
11/1/2017 01:33:56	R1710073-004	Sn (189.925 nm)	-0.0011 u (ppm)	46.19	-0.0011 (ppm)	-1.3870
11/1/2017 01:33:56	R1710073-004	Sr (216.596 nm)	0.2524 (ppm)	0.48	0.2524 (ppm)	3582.7167
11/1/2017 01:33:56	R1710073-004	Ti (336.122 nm)	0.0007 (ppm)	5.70	0.0007 (ppm)	-326.1457
11/1/2017 01:33:56	R1710073-004	Tl (351.923 nm)	0.0015 (ppm)	50.05	0.0015 (ppm)	11.5487
11/1/2017 01:33:56	R1710073-004	V (292.401 nm)	0.0011 (ppm)	11.97	0.0011 (ppm)	147.2483
11/1/2017 01:33:56	R1710073-004	Y (360.074 nm)	0.92 (Ratio)	0.90	0.92 (Ratio)	781741.91
11/1/2017 01:33:56	R1710073-004	Y_R (360.074 nm)	0.92 (Ratio)	0.90	0.92 (Ratio)	781930.88
11/1/2017 01:33:56	R1710073-004	Zn (213.857 nm)	0.0052 (ppm)	2.19	0.0052 (ppm)	119.8623
11/1/2017 01:37:15	R1710073-005	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-105.4928
11/1/2017 01:37:15	R1710073-005	Al (394.401 nm)	0.0347 (ppm)	0.92	0.0347 (ppm)	569.8167
11/1/2017 01:37:15	R1710073-005	As (188.980 nm)	0.0356 (ppm)	10.43	0.0356 (ppm)	30.3291
11/1/2017 01:37:15	R1710073-005	B (249.772 nm)	0.0504 (ppm)	0.92	0.0504 (ppm)	1428.5262
11/1/2017 01:37:15	R1710073-005	Ba (230.424 nm)	0.0773 (ppm)	0.06	0.0773 (ppm)	2600.2678
11/1/2017 01:37:15	R1710073-005	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-507.3533
11/1/2017 01:37:15	R1710073-005	Ca (227.547 nm)	96.2399 o (ppm)	0.65	96.2399 (ppm)	5422.2778
11/1/2017 01:37:15	R1710073-005	Cd (214.439 nm)	0.0001 (ppm)	19.03	0.0001 (ppm)	14.9545
11/1/2017 01:37:15	R1710073-005	Co (230.786 nm)	0.0084 (ppm)	3.52	0.0084 (ppm)	79.3466
11/1/2017 01:37:15	R1710073-005	Cr (267.716 nm)	-0.0003 u (ppm)	65.44	-0.0003 (ppm)	-16.1097
11/1/2017 01:37:15	R1710073-005	Cu (327.395 nm)	0.0008 (ppm)	11.06	0.0008 (ppm)	62.1183
11/1/2017 01:37:15	R1710073-005	Fe (234.350 nm)	5.7382 (ppm)	0.44	5.7382 (ppm)	64103.0432
11/1/2017 01:37:15	R1710073-005	K (766.491 nm)	13.6888 (ppm)	0.72	13.6888 (ppm)	41294.2015
11/1/2017 01:37:15	R1710073-005	Mg (279.078 nm)	7.8292 (ppm)	0.48	7.8292 (ppm)	15107.2161
11/1/2017 01:37:15	R1710073-005	Mn (257.610 nm)	0.7024 (ppm)	0.42	0.7024 (ppm)	220161.0836
11/1/2017 01:37:15	R1710073-005	Mo (202.032 nm)	0.0086 (ppm)	1.47	0.0086 (ppm)	95.2476
11/1/2017 01:37:15	R1710073-005	Na (588.995 nm)	6.3288 (ppm)	0.74	6.3288 (ppm)	282339.5548
11/1/2017 01:37:15	R1710073-005	Ni (230.299 nm)	-0.0037 u (ppm)	27.62	-0.0037 (ppm)	-45.5339
11/1/2017 01:37:15	R1710073-005	Pb (220.353 nm)	-0.0005 u (ppm)	29.43	-0.0005 (ppm)	3.9526
11/1/2017 01:37:15	R1710073-005	Sb (217.582 nm)	-0.0029 u (ppm)	62.69	-0.0029 (ppm)	-3.1199
11/1/2017 01:37:15	R1710073-005	Se (196.026 nm)	-0.0027 u (ppm)	> 100.00	-0.0027 (ppm)	-1.5331
11/1/2017 01:37:15	R1710073-005	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.4010
11/1/2017 01:37:15	R1710073-005	Sr (216.596 nm)	0.3419 (ppm)	0.78	0.3419 (ppm)	4854.1251
11/1/2017 01:37:15	R1710073-005	Ti (336.122 nm)	0.0013 (ppm)	3.24	0.0013 (ppm)	-205.8573
11/1/2017 01:37:15	R1710073-005	Tl (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	8.0350
11/1/2017 01:37:15	R1710073-005	V (292.401 nm)	0.0009 (ppm)	8.95	0.0009 (ppm)	139.5371
11/1/2017 01:37:15	R1710073-005	Y (360.074 nm)	0.92 (Ratio)	0.96	0.92 (Ratio)	783194.66
11/1/2017 01:37:15	R1710073-005	Y_R (360.074 nm)	0.92 (Ratio)	0.96	0.92 (Ratio)	783426.64
11/1/2017 01:37:15	R1710073-005	Zn (213.857 nm)	0.0061 (ppm)	1.60	0.0061 (ppm)	142.9700
11/1/2017 01:40:34	R1710073-006	Ag (328.068 nm)	-0.0001 u (ppm)	30.56	-0.0001 (ppm)	-111.9114
11/1/2017 01:40:34	R1710073-006	Al (394.401 nm)	0.0274 (ppm)	1.59	0.0274 (ppm)	476.2796
11/1/2017 01:40:34	R1710073-006	As (188.980 nm)	0.0330 (ppm)	19.36	0.0330 (ppm)	28.0722
11/1/2017 01:40:34	R1710073-006	B (249.772 nm)	0.0495 (ppm)	0.74	0.0495 (ppm)	1404.0410
11/1/2017 01:40:34	R1710073-006	Ba (230.424 nm)	0.0776 (ppm)	0.80	0.0776 (ppm)	2609.4575
11/1/2017 01:40:34	R1710073-006	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-522.2519
11/1/2017 01:40:34	R1710073-006	Ca (227.547 nm)	97.1030 o (ppm)	0.81	97.1030 (ppm)	5470.8646
11/1/2017 01:40:34	R1710073-006	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	16.0002

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:40:34	R1710073-006	Co (230.786 nm)	0.0086 (ppm)	3.76	0.0086 (ppm)	81.0658
11/1/2017 01:40:34	R1710073-006	Cr (267.716 nm)	-0.0005 u (ppm)	13.18	-0.0005 (ppm)	-27.0257
11/1/2017 01:40:34	R1710073-006	Cu (327.395 nm)	0.0006 (ppm)	21.06	0.0006 (ppm)	51.6093
11/1/2017 01:40:34	R1710073-006	Fe (234.350 nm)	5.5573 (ppm)	0.46	5.5573 (ppm)	62082.2405
11/1/2017 01:40:34	R1710073-006	K (766.491 nm)	13.8101 (ppm)	0.74	13.8101 (ppm)	41660.2893
11/1/2017 01:40:34	R1710073-006	Mg (279.078 nm)	7.8927 (ppm)	0.44	7.8927 (ppm)	15229.8037
11/1/2017 01:40:34	R1710073-006	Mn (257.610 nm)	0.6978 (ppm)	0.32	0.6978 (ppm)	218703.6806
11/1/2017 01:40:34	R1710073-006	Mo (202.032 nm)	0.0088 (ppm)	0.30	0.0088 (ppm)	96.4019
11/1/2017 01:40:34	R1710073-006	Na (588.995 nm)	6.2610 (ppm)	0.74	6.2610 (ppm)	279258.2638
11/1/2017 01:40:34	R1710073-006	Ni (230.299 nm)	-0.0036 u (ppm)	13.83	-0.0036 (ppm)	-44.5779
11/1/2017 01:40:34	R1710073-006	Pb (220.353 nm)	-0.0034 u (ppm)	15.59	-0.0034 (ppm)	-2.1947
11/1/2017 01:40:34	R1710073-006	Sb (217.582 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-0.9064
11/1/2017 01:40:34	R1710073-006	Se (196.026 nm)	-0.0014 u (ppm)	97.47	-0.0014 (ppm)	-0.4089
11/1/2017 01:40:34	R1710073-006	Sn (189.925 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	-1.8451
11/1/2017 01:40:34	R1710073-006	Sr (216.596 nm)	0.3425 (ppm)	0.32	0.3425 (ppm)	4862.4642
11/1/2017 01:40:34	R1710073-006	Ti (336.122 nm)	0.0010 (ppm)	4.42	0.0010 (ppm)	-264.6036
11/1/2017 01:40:34	R1710073-006	Tl (351.923 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	5.5125
11/1/2017 01:40:34	R1710073-006	V (292.401 nm)	0.0008 (ppm)	29.92	0.0008 (ppm)	136.4287
11/1/2017 01:40:34	R1710073-006	Y (360.074 nm)	0.92 (Ratio)	0.71	0.92 (Ratio)	781648.87
11/1/2017 01:40:34	R1710073-006	Y_R (360.074 nm)	0.92 (Ratio)	0.71	0.92 (Ratio)	781891.55
11/1/2017 01:40:34	R1710073-006	Zn (213.857 nm)	0.0041 (ppm)	2.65	0.0041 (ppm)	88.9242
11/1/2017 01:43:53	R1710073-007	Ag (328.068 nm)	-0.0002 u (ppm)	28.92	-0.0002 (ppm)	-114.5100
11/1/2017 01:43:53	R1710073-007	Al (394.401 nm)	0.0311 (ppm)	2.39	0.0311 (ppm)	523.6122
11/1/2017 01:43:53	R1710073-007	As (188.980 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-0.5971
11/1/2017 01:43:53	R1710073-007	B (249.772 nm)	0.0569 (ppm)	0.43	0.0569 (ppm)	1609.1720
11/1/2017 01:43:53	R1710073-007	Ba (230.424 nm)	0.0341 (ppm)	0.67	0.0341 (ppm)	1147.3418
11/1/2017 01:43:53	R1710073-007	Be (313.107 nm)	0.0000 (ppm)	31.65	0.0000 (ppm)	-478.6653
11/1/2017 01:43:53	R1710073-007	Ca (227.547 nm)	23.1406 (ppm)	0.96	23.1406 (ppm)	1307.1255
11/1/2017 01:43:53	R1710073-007	Cd (214.439 nm)	0.0003 (ppm)	41.03	0.0003 (ppm)	19.7729
11/1/2017 01:43:53	R1710073-007	Co (230.786 nm)	0.0085 (ppm)	3.33	0.0085 (ppm)	80.4501
11/1/2017 01:43:53	R1710073-007	Cr (267.716 nm)	-0.0003 u (ppm)	7.43	-0.0003 (ppm)	-15.9468
11/1/2017 01:43:53	R1710073-007	Cu (327.395 nm)	0.0006 (ppm)	23.16	0.0006 (ppm)	49.1367
11/1/2017 01:43:53	R1710073-007	Fe (234.350 nm)	0.3106 (ppm)	0.59	0.3106 (ppm)	3480.7744
11/1/2017 01:43:53	R1710073-007	K (766.491 nm)	4.4952 (ppm)	0.78	4.4952 (ppm)	13554.4008
11/1/2017 01:43:53	R1710073-007	Mg (279.078 nm)	5.2530 (ppm)	0.54	5.2530 (ppm)	10135.9286
11/1/2017 01:43:53	R1710073-007	Mn (257.610 nm)	0.9596 (ppm)	0.31	0.9596 (ppm)	300765.2290
11/1/2017 01:43:53	R1710073-007	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.2962
11/1/2017 01:43:53	R1710073-007	Na (588.995 nm)	61.9167 o (ppm)	0.72	61.9167 (ppm)	2810182.8380
11/1/2017 01:43:53	R1710073-007	Ni (230.299 nm)	0.0042 (ppm)	4.72	0.0042 (ppm)	7.6038
11/1/2017 01:43:53	R1710073-007	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.2823
11/1/2017 01:43:53	R1710073-007	Sb (217.582 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	0.1369
11/1/2017 01:43:53	R1710073-007	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	1.2310
11/1/2017 01:43:53	R1710073-007	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-0.8619
11/1/2017 01:43:53	R1710073-007	Sr (216.596 nm)	0.3296 (ppm)	0.35	0.3296 (ppm)	4679.8588
11/1/2017 01:43:53	R1710073-007	Ti (336.122 nm)	0.0010 (ppm)	6.36	0.0010 (ppm)	-280.0418
11/1/2017 01:43:53	R1710073-007	Tl (351.923 nm)	0.0007 (ppm)	95.79	0.0007 (ppm)	9.1571
11/1/2017 01:43:53	R1710073-007	V (292.401 nm)	0.0005 (ppm)	23.01	0.0005 (ppm)	127.9331
11/1/2017 01:43:53	R1710073-007	Y (360.074 nm)	0.92 (Ratio)	0.70	0.92 (Ratio)	781485.00
11/1/2017 01:43:53	R1710073-007	Y_R (360.074 nm)	0.92 (Ratio)	0.70	0.92 (Ratio)	781741.17
11/1/2017 01:43:53	R1710073-007	Zn (213.857 nm)	0.0083 (ppm)	0.78	0.0083 (ppm)	206.5750
11/1/2017 01:47:12	R1710073-008	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-105.8316

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:47:12	R1710073-008	Al (394.401 nm)	0.0177 (ppm)	3.45	0.0177 (ppm)	352.4141
11/1/2017 01:47:12	R1710073-008	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.5644
11/1/2017 01:47:12	R1710073-008	B (249.772 nm)	0.0555 (ppm)	0.45	0.0555 (ppm)	1570.2249
11/1/2017 01:47:12	R1710073-008	Ba (230.424 nm)	0.0332 (ppm)	0.19	0.0332 (ppm)	1119.2882
11/1/2017 01:47:12	R1710073-008	Be (313.107 nm)	0.0000 (ppm)	13.77	0.0000 (ppm)	-486.1866
11/1/2017 01:47:12	R1710073-008	Ca (227.547 nm)	22.6019 (ppm)	0.84	22.6019 (ppm)	1276.7993
11/1/2017 01:47:12	R1710073-008	Cd (214.439 nm)	0.0003 (ppm)	0.74	0.0003 (ppm)	19.0640
11/1/2017 01:47:12	R1710073-008	Co (230.786 nm)	0.0080 (ppm)	1.48	0.0080 (ppm)	75.7468
11/1/2017 01:47:12	R1710073-008	Cr (267.716 nm)	-0.0003 u (ppm)	31.50	-0.0003 (ppm)	-18.2048
11/1/2017 01:47:12	R1710073-008	Cu (327.395 nm)	0.0007 (ppm)	15.55	0.0007 (ppm)	58.3821
11/1/2017 01:47:12	R1710073-008	Fe (234.350 nm)	0.0556 (ppm)	0.92	0.0556 (ppm)	633.2229
11/1/2017 01:47:12	R1710073-008	K (766.491 nm)	4.3812 (ppm)	0.65	4.3812 (ppm)	13210.3760
11/1/2017 01:47:12	R1710073-008	Mg (279.078 nm)	5.1314 (ppm)	0.43	5.1314 (ppm)	9901.3588
11/1/2017 01:47:12	R1710073-008	Mn (257.610 nm)	0.9339 (ppm)	0.36	0.9339 (ppm)	292731.4251
11/1/2017 01:47:12	R1710073-008	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.5763
11/1/2017 01:47:12	R1710073-008	Na (588.995 nm)	60.5157 o (ppm)	0.78	60.5157 (ppm)	2746472.9735
11/1/2017 01:47:12	R1710073-008	Ni (230.299 nm)	0.0039 (ppm)	19.64	0.0039 (ppm)	5.4471
11/1/2017 01:47:12	R1710073-008	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.5462
11/1/2017 01:47:12	R1710073-008	Sb (217.582 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-0.4514
11/1/2017 01:47:12	R1710073-008	Se (196.026 nm)	-0.0019 u (ppm)	62.34	-0.0019 (ppm)	-0.8530
11/1/2017 01:47:12	R1710073-008	Sn (189.925 nm)	0.0011 (ppm)	53.58	0.0011 (ppm)	1.2584
11/1/2017 01:47:12	R1710073-008	Sr (216.596 nm)	0.3217 (ppm)	0.59	0.3217 (ppm)	4567.2019
11/1/2017 01:47:12	R1710073-008	Ti (336.122 nm)	0.0006 (ppm)	5.67	0.0006 (ppm)	-348.0622
11/1/2017 01:47:12	R1710073-008	Tl (351.923 nm)	0.0023 (ppm)	19.11	0.0023 (ppm)	13.6109
11/1/2017 01:47:12	R1710073-008	V (292.401 nm)	0.0004 (ppm)	56.57	0.0004 (ppm)	122.9673
11/1/2017 01:47:12	R1710073-008	Y (360.074 nm)	0.92 (Ratio)	0.77	0.92 (Ratio)	782648.61
11/1/2017 01:47:12	R1710073-008	Y_R (360.074 nm)	0.92 (Ratio)	0.77	0.92 (Ratio)	782918.69
11/1/2017 01:47:12	R1710073-008	Zn (213.857 nm)	0.0072 (ppm)	1.38	0.0072 (ppm)	174.5452
11/1/2017 01:50:30	Continuing Calibration Verification1	Ag (328.068 nm)	0.5007 (ppm)	0.26	0.5007 (ppm)	35669.2502
11/1/2017 01:50:30	Continuing Calibration Verification1	Al (394.401 nm)	9.5994 (ppm)	0.36	9.5994 (ppm)	122975.5582
11/1/2017 01:50:30	Continuing Calibration Verification1	As (188.980 nm)	0.9995 (ppm)	0.65	0.9995 (ppm)	892.0275
11/1/2017 01:50:30	Continuing Calibration Verification1	B (249.772 nm)	2.4739 (ppm)	0.22	2.4739 (ppm)	68529.9304
11/1/2017 01:50:30	Continuing Calibration Verification1	Ba (230.424 nm)	10.6274 (ppm)	0.23	10.6274 (ppm)	357283.9789
11/1/2017 01:50:30	Continuing Calibration Verification1	Be (313.107 nm)	0.2596 (ppm)	0.32	0.2596 (ppm)	383005.3790
11/1/2017 01:50:30	Continuing Calibration Verification1	Ca (227.547 nm)	24.3959 (ppm)	0.46	24.3959 (ppm)	1377.7902
11/1/2017 01:50:30	Continuing Calibration Verification1	Cd (214.439 nm)	0.5234 (ppm)	0.23	0.5234 (ppm)	11345.5268
11/1/2017 01:50:30	Continuing Calibration Verification1	Co (230.786 nm)	2.6834 (ppm)	0.33	2.6834 (ppm)	26489.2376
11/1/2017 01:50:30	Continuing Calibration Verification1	Cr (267.716 nm)	0.5259 (ppm)	0.24	0.5259 (ppm)	26038.1170
11/1/2017 01:50:30	Continuing Calibration Verification1	Cu (327.395 nm)	1.2063 (ppm)	0.41	1.2063 (ppm)	74906.1577
11/1/2017 01:50:30	Continuing Calibration Verification1	Fe (234.350 nm)	5.0125 (ppm)	0.27	5.0125 (ppm)	55998.1385
11/1/2017 01:50:30	Continuing Calibration Verification1	K (766.491 nm)	24.5375 (ppm)	0.59	24.5375 (ppm)	74027.7517
11/1/2017 01:50:30	Continuing Calibration Verification1	Mg (279.078 nm)	26.0398 (ppm)	0.31	26.0398 (ppm)	50247.9399
11/1/2017 01:50:30	Continuing Calibration Verification1	Mn (257.610 nm)	0.7773 (ppm)	0.28	0.7773 (ppm)	243643.6553
11/1/2017 01:50:30	Continuing Calibration Verification1	Mo (202.032 nm)	2.4953 (ppm)	0.13	2.4953 (ppm)	25443.5337
11/1/2017 01:50:30	Continuing Calibration Verification1	Na (588.995 nm)	24.6830 (ppm)	0.50	24.6830 (ppm)	1116993.2438
11/1/2017 01:50:30	Continuing Calibration Verification1	Ni (230.299 nm)	2.1074 (ppm)	0.17	2.1074 (ppm)	14176.0123
11/1/2017 01:50:30	Continuing Calibration Verification1	Pb (220.353 nm)	0.5186 (ppm)	0.23	0.5186 (ppm)	1113.0631
11/1/2017 01:50:30	Continuing Calibration Verification1	Sb (217.582 nm)	5.0150 (ppm)	0.40	5.0150 (ppm)	6859.1011
11/1/2017 01:50:30	Continuing Calibration Verification1	Se (196.026 nm)	0.5086 (ppm)	1.14	0.5086 (ppm)	436.3593
11/1/2017 01:50:30	Continuing Calibration Verification1	Sn (189.925 nm)	5.3310 (ppm)	0.56	5.3310 (ppm)	6455.5199
11/1/2017 01:50:30	Continuing Calibration Verification1	Sr (216.596 nm)	2.6546 (ppm)	0.45	2.6546 (ppm)	37690.7694

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:50:30	Continuing Calibration Verification1	Ti (336.122 nm)	2.5496 (ppm)	0.28	2.5496 (ppm)	532983.8077
11/1/2017 01:50:30	Continuing Calibration Verification1	Tl (351.923 nm)	1.0015 (ppm)	0.39	1.0015 (ppm)	2758.2368
11/1/2017 01:50:30	Continuing Calibration Verification1	V (292.401 nm)	2.5861 (ppm)	0.27	2.5861 (ppm)	91518.3346
11/1/2017 01:50:30	Continuing Calibration Verification1	Y (360.074 nm)	0.91 (Ratio)	0.77	0.91 (Ratio)	772379.78
11/1/2017 01:50:30	Continuing Calibration Verification1	Y_R (360.074 nm)	0.90 (Ratio)	0.77	0.90 (Ratio)	772641.87
11/1/2017 01:50:30	Continuing Calibration Verification1	Zn (213.857 nm)	1.0476 (ppm)	0.27	1.0476 (ppm)	29280.7239
11/1/2017 01:53:49	Continuing Calibration Blank1	Ag (328.068 nm)	0.0003 (ppm)	20.63	0.0003 (ppm)	-83.0924
11/1/2017 01:53:49	Continuing Calibration Blank1	Al (394.401 nm)	0.0056 (ppm)	35.23	0.0056 (ppm)	197.8986
11/1/2017 01:53:49	Continuing Calibration Blank1	As (188.980 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-0.8806
11/1/2017 01:53:49	Continuing Calibration Blank1	B (249.772 nm)	0.0045 (ppm)	25.45	0.0045 (ppm)	159.1498
11/1/2017 01:53:49	Continuing Calibration Blank1	Ba (230.424 nm)	0.0062 (ppm)	29.92	0.0062 (ppm)	210.3802
11/1/2017 01:53:49	Continuing Calibration Blank1	Be (313.107 nm)	0.0001 (ppm)	31.83	0.0001 (ppm)	-324.0520
11/1/2017 01:53:49	Continuing Calibration Blank1	Ca (227.547 nm)	0.0060 u (ppm)	> 100.00	0.0060 (ppm)	4.7544
11/1/2017 01:53:49	Continuing Calibration Blank1	Cd (214.439 nm)	0.0005 (ppm)	32.54	0.0005 (ppm)	23.8976
11/1/2017 01:53:49	Continuing Calibration Blank1	Co (230.786 nm)	0.0015 (ppm)	46.31	0.0015 (ppm)	11.0144
11/1/2017 01:53:49	Continuing Calibration Blank1	Cr (267.716 nm)	0.0003 (ppm)	20.60	0.0003 (ppm)	12.5102
11/1/2017 01:53:49	Continuing Calibration Blank1	Cu (327.395 nm)	0.0009 (ppm)	36.02	0.0009 (ppm)	66.8986
11/1/2017 01:53:49	Continuing Calibration Blank1	Fe (234.350 nm)	0.0038 (ppm)	29.61	0.0038 (ppm)	54.2374
11/1/2017 01:53:49	Continuing Calibration Blank1	K (766.491 nm)	0.0441 (ppm)	33.68	0.0441 (ppm)	124.3398
11/1/2017 01:53:49	Continuing Calibration Blank1	Mg (279.078 nm)	0.0122 (ppm)	31.58	0.0122 (ppm)	22.8788
11/1/2017 01:53:49	Continuing Calibration Blank1	Mn (257.610 nm)	0.0013 (ppm)	4.98	0.0013 (ppm)	415.2376
11/1/2017 01:53:49	Continuing Calibration Blank1	Mo (202.032 nm)	0.0037 (ppm)	18.53	0.0037 (ppm)	44.9972
11/1/2017 01:53:49	Continuing Calibration Blank1	Na (588.995 nm)	-0.0176 u (ppm)	24.68	-0.0176 (ppm)	-6259.3309
11/1/2017 01:53:49	Continuing Calibration Blank1	Ni (230.299 nm)	0.0011 (ppm)	66.64	0.0011 (ppm)	-13.4910
11/1/2017 01:53:49	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	4.0507
11/1/2017 01:53:49	Continuing Calibration Blank1	Sb (217.582 nm)	0.0044 (ppm)	70.18	0.0044 (ppm)	6.7565
11/1/2017 01:53:49	Continuing Calibration Blank1	Se (196.026 nm)	0.0016 (ppm)	60.98	0.0016 (ppm)	2.1759
11/1/2017 01:53:49	Continuing Calibration Blank1	Sn (189.925 nm)	0.0038 (ppm)	25.01	0.0038 (ppm)	4.5839
11/1/2017 01:53:49	Continuing Calibration Blank1	Sr (216.596 nm)	0.0016 (ppm)	14.56	0.0016 (ppm)	22.0696
11/1/2017 01:53:49	Continuing Calibration Blank1	Ti (336.122 nm)	0.0022 (ppm)	20.23	0.0022 (ppm)	-16.2120
11/1/2017 01:53:49	Continuing Calibration Blank1	Tl (351.923 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	10.2414
11/1/2017 01:53:49	Continuing Calibration Blank1	V (292.401 nm)	0.0016 (ppm)	32.76	0.0016 (ppm)	164.9192
11/1/2017 01:53:49	Continuing Calibration Blank1	Y (360.074 nm)	0.94 (Ratio)	0.68	0.94 (Ratio)	802311.90
11/1/2017 01:53:49	Continuing Calibration Blank1	Y_R (360.074 nm)	0.94 (Ratio)	0.68	0.94 (Ratio)	802654.85
11/1/2017 01:53:49	Continuing Calibration Blank1	Zn (213.857 nm)	0.0006 (ppm)	14.16	0.0006 (ppm)	-8.7851
11/1/2017 01:57:08	R1710073-009	Ag (328.068 nm)	0.0007 (ppm)	16.03	0.0007 (ppm)	-55.2011
11/1/2017 01:57:08	R1710073-009	Al (394.401 nm)	0.0993 (ppm)	0.69	0.0993 (ppm)	1396.8921
11/1/2017 01:57:08	R1710073-009	As (188.980 nm)	0.0038 (ppm)	6.97	0.0038 (ppm)	1.9536
11/1/2017 01:57:08	R1710073-009	B (249.772 nm)	0.4678 (ppm)	0.38	0.4678 (ppm)	12986.8409
11/1/2017 01:57:08	R1710073-009	Ba (230.424 nm)	4.0745 (ppm)	0.59	4.0745 (ppm)	136981.4733
11/1/2017 01:57:08	R1710073-009	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-519.5740
11/1/2017 01:57:08	R1710073-009	Ca (227.547 nm)	69.6442 o (ppm)	0.53	69.6442 (ppm)	3925.0600
11/1/2017 01:57:08	R1710073-009	Cd (214.439 nm)	0.0007 (ppm)	26.96	0.0007 (ppm)	29.0567
11/1/2017 01:57:08	R1710073-009	Co (230.786 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-2.6983
11/1/2017 01:57:08	R1710073-009	Cr (267.716 nm)	0.0009 (ppm)	10.52	0.0009 (ppm)	43.2030
11/1/2017 01:57:08	R1710073-009	Cu (327.395 nm)	0.0007 (ppm)	19.64	0.0007 (ppm)	54.0956
11/1/2017 01:57:08	R1710073-009	Fe (234.350 nm)	55.6904 o (ppm)	0.38	55.6904 (ppm)	622031.1946
11/1/2017 01:57:08	R1710073-009	K (766.491 nm)	27.2603 (ppm)	0.53	27.2603 (ppm)	82243.1980
11/1/2017 01:57:08	R1710073-009	Mg (279.078 nm)	15.0892 (ppm)	0.30	15.0892 (ppm)	29116.6900
11/1/2017 01:57:08	R1710073-009	Mn (257.610 nm)	0.2901 (ppm)	0.16	0.2901 (ppm)	90923.9107
11/1/2017 01:57:08	R1710073-009	Mo (202.032 nm)	0.0008 (ppm)	17.59	0.0008 (ppm)	15.2538

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 01:57:08	R1710073-009	Na (588.995 nm)	52.0438 (ppm)	0.64	52.0438 (ppm)	2361216.1502
11/1/2017 01:57:08	R1710073-009	Ni (230.299 nm)	-0.0032 u (ppm)	7.04	-0.0032 (ppm)	-42.2648
11/1/2017 01:57:08	R1710073-009	Pb (220.353 nm)	0.2100 (ppm)	1.47	0.2100 (ppm)	453.6715
11/1/2017 01:57:08	R1710073-009	Sb (217.582 nm)	-0.0040 u (ppm)	24.22	-0.0040 (ppm)	-4.6843
11/1/2017 01:57:08	R1710073-009	Se (196.026 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	0.6516
11/1/2017 01:57:08	R1710073-009	Sn (189.925 nm)	0.0094 (ppm)	8.07	0.0094 (ppm)	11.2722
11/1/2017 01:57:08	R1710073-009	Sr (216.596 nm)	0.4690 (ppm)	0.28	0.4690 (ppm)	6657.8945
11/1/2017 01:57:08	R1710073-009	Ti (336.122 nm)	0.0037 (ppm)	1.66	0.0037 (ppm)	295.1448
11/1/2017 01:57:08	R1710073-009	Tl (351.923 nm)	-0.0015 u (ppm)	38.07	-0.0015 (ppm)	3.1348
11/1/2017 01:57:08	R1710073-009	V (292.401 nm)	0.0028 (ppm)	7.07	0.0028 (ppm)	207.7854
11/1/2017 01:57:08	R1710073-009	Y (360.074 nm)	0.90 (Ratio)	0.59	0.90 (Ratio)	766966.83
11/1/2017 01:57:08	R1710073-009	Y_R (360.074 nm)	0.90 (Ratio)	0.59	0.90 (Ratio)	767232.52
11/1/2017 01:57:08	R1710073-009	Zn (213.857 nm)	0.0143 (ppm)	3.08	0.0143 (ppm)	374.0667
11/1/2017 02:00:28	R1710073-010	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-100.6298
11/1/2017 02:00:28	R1710073-010	Al (394.401 nm)	0.0471 (ppm)	0.42	0.0471 (ppm)	728.5702
11/1/2017 02:00:28	R1710073-010	As (188.980 nm)	0.0041 (ppm)	16.73	0.0041 (ppm)	2.1888
11/1/2017 02:00:28	R1710073-010	B (249.772 nm)	0.4747 (ppm)	0.33	0.4747 (ppm)	13178.0352
11/1/2017 02:00:28	R1710073-010	Ba (230.424 nm)	4.1348 (ppm)	0.53	4.1348 (ppm)	139011.5315
11/1/2017 02:00:28	R1710073-010	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-513.7292
11/1/2017 02:00:28	R1710073-010	Ca (227.547 nm)	68.5112 o (ppm)	0.59	68.5112 (ppm)	3861.2792
11/1/2017 02:00:28	R1710073-010	Cd (214.439 nm)	0.0008 (ppm)	20.30	0.0008 (ppm)	30.1020
11/1/2017 02:00:28	R1710073-010	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-3.2101
11/1/2017 02:00:28	R1710073-010	Cr (267.716 nm)	0.0011 (ppm)	4.83	0.0011 (ppm)	55.2499
11/1/2017 02:00:28	R1710073-010	Cu (327.395 nm)	0.0006 (ppm)	34.72	0.0006 (ppm)	50.0932
11/1/2017 02:00:28	R1710073-010	Fe (234.350 nm)	55.0358 o (ppm)	0.60	55.0358 (ppm)	614720.7676
11/1/2017 02:00:28	R1710073-010	K (766.491 nm)	26.2787 (ppm)	0.59	26.2787 (ppm)	79281.5140
11/1/2017 02:00:28	R1710073-010	Mg (279.078 nm)	14.9320 (ppm)	0.45	14.9320 (ppm)	28813.3651
11/1/2017 02:00:28	R1710073-010	Mn (257.610 nm)	0.2849 (ppm)	0.36	0.2849 (ppm)	89317.9495
11/1/2017 02:00:28	R1710073-010	Mo (202.032 nm)	0.0008 (ppm)	44.95	0.0008 (ppm)	15.7170
11/1/2017 02:00:28	R1710073-010	Na (588.995 nm)	50.3943 (ppm)	0.55	50.3943 (ppm)	2286206.7156
11/1/2017 02:00:28	R1710073-010	Ni (230.299 nm)	-0.0022 u (ppm)	49.56	-0.0022 (ppm)	-35.6131
11/1/2017 02:00:28	R1710073-010	Pb (220.353 nm)	0.0118 (ppm)	10.00	0.0118 (ppm)	30.1962
11/1/2017 02:00:28	R1710073-010	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	1.4880
11/1/2017 02:00:28	R1710073-010	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.7654
11/1/2017 02:00:28	R1710073-010	Sn (189.925 nm)	0.0042 (ppm)	36.15	0.0042 (ppm)	5.0312
11/1/2017 02:00:28	R1710073-010	Sr (216.596 nm)	0.4651 (ppm)	0.67	0.4651 (ppm)	6603.5967
11/1/2017 02:00:28	R1710073-010	Ti (336.122 nm)	0.0017 (ppm)	6.20	0.0017 (ppm)	-126.9129
11/1/2017 02:00:28	R1710073-010	Tl (351.923 nm)	-0.0021 u (ppm)	> 100.00	-0.0021 (ppm)	1.4613
11/1/2017 02:00:28	R1710073-010	V (292.401 nm)	0.0027 (ppm)	4.00	0.0027 (ppm)	204.0742
11/1/2017 02:00:28	R1710073-010	Y (360.074 nm)	0.90 (Ratio)	0.69	0.90 (Ratio)	764940.60
11/1/2017 02:00:28	R1710073-010	Y_R (360.074 nm)	0.90 (Ratio)	0.69	0.90 (Ratio)	765234.82
11/1/2017 02:00:28	R1710073-010	Zn (213.857 nm)	0.0148 (ppm)	1.38	0.0148 (ppm)	386.1333
11/1/2017 02:03:46	R1710073-013	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-102.1288
11/1/2017 02:03:46	R1710073-013	Al (394.401 nm)	0.0567 (ppm)	1.70	0.0567 (ppm)	851.3663
11/1/2017 02:03:46	R1710073-013	As (188.980 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	-2.8672
11/1/2017 02:03:46	R1710073-013	B (249.772 nm)	0.0373 (ppm)	1.54	0.0373 (ppm)	1066.2093
11/1/2017 02:03:46	R1710073-013	Ba (230.424 nm)	0.1694 (ppm)	1.62	0.1694 (ppm)	5696.2129
11/1/2017 02:03:46	R1710073-013	Be (313.107 nm)	0.0001 (ppm)	8.97	0.0001 (ppm)	-366.9313
11/1/2017 02:03:46	R1710073-013	Ca (227.547 nm)	35.9400 (ppm)	0.88	35.9400 (ppm)	2027.6693
11/1/2017 02:03:46	R1710073-013	Cd (214.439 nm)	0.0003 (ppm)	19.41	0.0003 (ppm)	20.0247
11/1/2017 02:03:46	R1710073-013	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.2911

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:03:46	R1710073-013	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	4.0685
11/1/2017 02:03:46	R1710073-013	Cu (327.395 nm)	0.0004 (ppm)	35.29	0.0004 (ppm)	35.8617
11/1/2017 02:03:46	R1710073-013	Fe (234.350 nm)	0.0717 (ppm)	40.61	0.0717 (ppm)	812.7456
11/1/2017 02:03:46	R1710073-013	K (766.491 nm)	6.7963 (ppm)	0.89	6.7963 (ppm)	20497.4850
11/1/2017 02:03:46	R1710073-013	Mg (279.078 nm)	9.5132 (ppm)	0.68	9.5132 (ppm)	18356.8578
11/1/2017 02:03:46	R1710073-013	Mn (257.610 nm)	0.0511 (ppm)	0.49	0.0511 (ppm)	16018.2076
11/1/2017 02:03:46	R1710073-013	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	9.0350
11/1/2017 02:03:46	R1710073-013	Na (588.995 nm)	136.8077 o (ppm)	0.93	136.8077 (ppm)	6215834.2599
11/1/2017 02:03:46	R1710073-013	Ni (230.299 nm)	0.0019 (ppm)	71.20	0.0019 (ppm)	-8.0705
11/1/2017 02:03:46	R1710073-013	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	3.5500
11/1/2017 02:03:46	R1710073-013	Sb (217.582 nm)	-0.0017 u (ppm)	47.76	-0.0017 (ppm)	-1.5052
11/1/2017 02:03:46	R1710073-013	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-0.1246
11/1/2017 02:03:46	R1710073-013	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-0.7204
11/1/2017 02:03:46	R1710073-013	Sr (216.596 nm)	0.4125 (ppm)	0.28	0.4125 (ppm)	5855.7550
11/1/2017 02:03:46	R1710073-013	Ti (336.122 nm)	0.0009 (ppm)	6.48	0.0009 (ppm)	-298.8822
11/1/2017 02:03:46	R1710073-013	Tl (351.923 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	12.3446
11/1/2017 02:03:46	R1710073-013	V (292.401 nm)	0.0005 (ppm)	25.78	0.0005 (ppm)	126.5048
11/1/2017 02:03:46	R1710073-013	Y (360.074 nm)	0.89 (Ratio)	0.99	0.89 (Ratio)	761347.97
11/1/2017 02:03:46	R1710073-013	Y_R (360.074 nm)	0.89 (Ratio)	0.99	0.89 (Ratio)	761652.53
11/1/2017 02:03:46	R1710073-013	Zn (213.857 nm)	0.0032 (ppm)	4.30	0.0032 (ppm)	62.6883
11/1/2017 02:07:04	R1710073-013S	Ag (328.068 nm)	0.0523 (ppm)	0.25	0.0523 (ppm)	3631.4107
11/1/2017 02:07:04	R1710073-013S	Al (394.401 nm)	2.1166 (ppm)	0.38	2.1166 (ppm)	27213.2634
11/1/2017 02:07:04	R1710073-013S	As (188.980 nm)	0.0459 (ppm)	13.59	0.0459 (ppm)	39.5495
11/1/2017 02:07:04	R1710073-013S	B (249.772 nm)	1.0569 (ppm)	0.31	1.0569 (ppm)	29297.2015
11/1/2017 02:07:04	R1710073-013S	Ba (230.424 nm)	2.3068 (ppm)	0.28	2.3068 (ppm)	77555.3763
11/1/2017 02:07:04	R1710073-013S	Be (313.107 nm)	0.0528 (ppm)	0.27	0.0528 (ppm)	77415.4383
11/1/2017 02:07:04	R1710073-013S	Ca (227.547 nm)	39.0452 (ppm)	0.55	39.0452 (ppm)	2202.4780
11/1/2017 02:07:04	R1710073-013S	Cd (214.439 nm)	0.0539 (ppm)	0.25	0.0539 (ppm)	1181.2615
11/1/2017 02:07:04	R1710073-013S	Co (230.786 nm)	0.5321 (ppm)	0.18	0.5321 (ppm)	5249.8917
11/1/2017 02:07:04	R1710073-013S	Cr (267.716 nm)	0.2078 (ppm)	0.20	0.2078 (ppm)	10287.8543
11/1/2017 02:07:04	R1710073-013S	Cu (327.395 nm)	0.2539 (ppm)	0.27	0.2539 (ppm)	15778.1144
11/1/2017 02:07:04	R1710073-013S	Fe (234.350 nm)	1.0354 (ppm)	0.50	1.0354 (ppm)	11576.3096
11/1/2017 02:07:04	R1710073-013S	K (766.491 nm)	28.1028 (ppm)	0.46	28.1028 (ppm)	84785.1777
11/1/2017 02:07:04	R1710073-013S	Mg (279.078 nm)	11.8291 (ppm)	0.30	11.8291 (ppm)	22825.8475
11/1/2017 02:07:04	R1710073-013S	Mn (257.610 nm)	0.5644 (ppm)	0.22	0.5644 (ppm)	176910.3170
11/1/2017 02:07:04	R1710073-013S	Mo (202.032 nm)	0.5057 (ppm)	0.32	0.5057 (ppm)	5161.6244
11/1/2017 02:07:04	R1710073-013S	Na (588.995 nm)	157.9386 o (ppm)	0.60	157.9386 (ppm)	7176754.1895
11/1/2017 02:07:04	R1710073-013S	Ni (230.299 nm)	0.5319 (ppm)	0.35	0.5319 (ppm)	3562.6521
11/1/2017 02:07:04	R1710073-013S	Pb (220.353 nm)	0.5274 (ppm)	0.49	0.5274 (ppm)	1131.8226
11/1/2017 02:07:04	R1710073-013S	Sb (217.582 nm)	0.5304 (ppm)	0.55	0.5304 (ppm)	726.1908
11/1/2017 02:07:04	R1710073-013S	Se (196.026 nm)	1.1727 o (ppm)	0.39	1.1727 (ppm)	1005.0773
11/1/2017 02:07:04	R1710073-013S	Sn (189.925 nm)	5.3498 (ppm)	0.52	5.3498 (ppm)	6478.2163
11/1/2017 02:07:04	R1710073-013S	Sr (216.596 nm)	2.5519 (ppm)	0.16	2.5519 (ppm)	36233.5432
11/1/2017 02:07:04	R1710073-013S	Ti (336.122 nm)	0.5088 (ppm)	0.33	0.5088 (ppm)	105984.5553
11/1/2017 02:07:04	R1710073-013S	Tl (351.923 nm)	2.0354 (ppm)	0.54	2.0354 (ppm)	5597.9552
11/1/2017 02:07:04	R1710073-013S	V (292.401 nm)	0.5242 (ppm)	0.26	0.5242 (ppm)	18638.3288
11/1/2017 02:07:04	R1710073-013S	Y (360.074 nm)	0.89 (Ratio)	0.79	0.89 (Ratio)	758846.37
11/1/2017 02:07:04	R1710073-013S	Y_R (360.074 nm)	0.89 (Ratio)	0.79	0.89 (Ratio)	759120.45
11/1/2017 02:07:04	R1710073-013S	Zn (213.857 nm)	0.5496 (ppm)	0.43	0.5496 (ppm)	15350.0136
11/1/2017 02:10:22	R1710073-013SD	Ag (328.068 nm)	0.0511 (ppm)	0.86	0.0511 (ppm)	3550.2378
11/1/2017 02:10:22	R1710073-013SD	Al (394.401 nm)	2.0707 (ppm)	0.57	2.0707 (ppm)	26626.3358

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:10:22	R1710073-013SD	As (188.980 nm)	0.0416 (ppm)	4.25	0.0416 (ppm)	35.7318
11/1/2017 02:10:22	R1710073-013SD	B (249.772 nm)	1.0459 (ppm)	0.31	1.0459 (ppm)	28990.5331
11/1/2017 02:10:22	R1710073-013SD	Ba (230.424 nm)	2.2578 (ppm)	0.49	2.2578 (ppm)	75907.0251
11/1/2017 02:10:22	R1710073-013SD	Be (313.107 nm)	0.0520 (ppm)	0.47	0.0520 (ppm)	76230.4943
11/1/2017 02:10:22	R1710073-013SD	Ca (227.547 nm)	38.0925 (ppm)	0.64	38.0925 (ppm)	2148.8494
11/1/2017 02:10:22	R1710073-013SD	Cd (214.439 nm)	0.0529 (ppm)	0.15	0.0529 (ppm)	1159.8329
11/1/2017 02:10:22	R1710073-013SD	Co (230.786 nm)	0.5223 (ppm)	0.59	0.5223 (ppm)	5152.6316
11/1/2017 02:10:22	R1710073-013SD	Cr (267.716 nm)	0.2042 (ppm)	0.61	0.2042 (ppm)	10107.6771
11/1/2017 02:10:22	R1710073-013SD	Cu (327.395 nm)	0.2500 (ppm)	0.68	0.2500 (ppm)	15535.6965
11/1/2017 02:10:22	R1710073-013SD	Fe (234.350 nm)	1.0107 (ppm)	0.81	1.0107 (ppm)	11300.6117
11/1/2017 02:10:22	R1710073-013SD	K (766.491 nm)	27.4475 (ppm)	0.60	27.4475 (ppm)	82808.1309
11/1/2017 02:10:22	R1710073-013SD	Mg (279.078 nm)	11.5358 (ppm)	0.60	11.5358 (ppm)	22259.7560
11/1/2017 02:10:22	R1710073-013SD	Mn (257.610 nm)	0.5532 (ppm)	0.39	0.5532 (ppm)	173397.1103
11/1/2017 02:10:22	R1710073-013SD	Mo (202.032 nm)	0.4968 (ppm)	0.37	0.4968 (ppm)	5070.9105
11/1/2017 02:10:22	R1710073-013SD	Na (588.995 nm)	154.4422 o (ppm)	0.73	154.4422 (ppm)	7017758.8357
11/1/2017 02:10:22	R1710073-013SD	Ni (230.299 nm)	0.5203 (ppm)	0.23	0.5203 (ppm)	3484.7045
11/1/2017 02:10:22	R1710073-013SD	Pb (220.353 nm)	0.5192 (ppm)	0.75	0.5192 (ppm)	1114.3872
11/1/2017 02:10:22	R1710073-013SD	Sb (217.582 nm)	0.5194 (ppm)	0.89	0.5194 (ppm)	711.0870
11/1/2017 02:10:22	R1710073-013SD	Se (196.026 nm)	1.1369 o (ppm)	1.28	1.1369 (ppm)	974.4621
11/1/2017 02:10:22	R1710073-013SD	Sn (189.925 nm)	5.2049 (ppm)	0.52	5.2049 (ppm)	6302.8191
11/1/2017 02:10:22	R1710073-013SD	Sr (216.596 nm)	2.5042 (ppm)	0.59	2.5042 (ppm)	35556.1480
11/1/2017 02:10:22	R1710073-013SD	Ti (336.122 nm)	0.4994 (ppm)	0.64	0.4994 (ppm)	104016.7003
11/1/2017 02:10:22	R1710073-013SD	Tl (351.923 nm)	1.9907 (ppm)	0.69	1.9907 (ppm)	5475.3198
11/1/2017 02:10:22	R1710073-013SD	V (292.401 nm)	0.5150 (ppm)	0.38	0.5150 (ppm)	18312.2900
11/1/2017 02:10:22	R1710073-013SD	Y (360.074 nm)	0.89 (Ratio)	0.86	0.89 (Ratio)	760880.57
11/1/2017 02:10:22	R1710073-013SD	Y_R (360.074 nm)	0.89 (Ratio)	0.86	0.89 (Ratio)	761151.00
11/1/2017 02:10:22	R1710073-013SD	Zn (213.857 nm)	0.5361 (ppm)	0.59	0.5361 (ppm)	14970.7163
11/1/2017 02:13:41	R1710073-013A	Ag (328.068 nm)	0.0493 (ppm)	0.19	0.0493 (ppm)	3419.3933
11/1/2017 02:13:41	R1710073-013A	Al (394.401 nm)	2.0202 (ppm)	0.49	2.0202 (ppm)	25980.3921
11/1/2017 02:13:41	R1710073-013A	As (188.980 nm)	0.0407 (ppm)	12.64	0.0407 (ppm)	34.8873
11/1/2017 02:13:41	R1710073-013A	B (249.772 nm)	1.1455 (ppm)	0.33	1.1455 (ppm)	31750.1476
11/1/2017 02:13:41	R1710073-013A	Ba (230.424 nm)	2.1653 (ppm)	0.48	2.1653 (ppm)	72797.2047
11/1/2017 02:13:41	R1710073-013A	Be (313.107 nm)	0.0498 (ppm)	0.34	0.0498 (ppm)	73097.7429
11/1/2017 02:13:41	R1710073-013A	Ca (227.547 nm)	36.7536 (ppm)	0.79	36.7536 (ppm)	2073.4731
11/1/2017 02:13:41	R1710073-013A	Cd (214.439 nm)	0.0506 (ppm)	0.60	0.0506 (ppm)	1109.4264
11/1/2017 02:13:41	R1710073-013A	Co (230.786 nm)	0.5015 (ppm)	0.36	0.5015 (ppm)	4947.9511
11/1/2017 02:13:41	R1710073-013A	Cr (267.716 nm)	0.1959 (ppm)	0.50	0.1959 (ppm)	9699.7802
11/1/2017 02:13:41	R1710073-013A	Cu (327.395 nm)	0.2412 (ppm)	0.53	0.2412 (ppm)	14990.7392
11/1/2017 02:13:41	R1710073-013A	Fe (234.350 nm)	0.9661 (ppm)	0.42	0.9661 (ppm)	10802.8174
11/1/2017 02:13:41	R1710073-013A	K (766.491 nm)	26.7295 (ppm)	0.55	26.7295 (ppm)	80641.5418
11/1/2017 02:13:41	R1710073-013A	Mg (279.078 nm)	10.9979 (ppm)	0.37	10.9979 (ppm)	21221.8775
11/1/2017 02:13:41	R1710073-013A	Mn (257.610 nm)	0.5341 (ppm)	0.16	0.5341 (ppm)	167409.7890
11/1/2017 02:13:41	R1710073-013A	Mo (202.032 nm)	0.4801 (ppm)	0.35	0.4801 (ppm)	4901.2561
11/1/2017 02:13:41	R1710073-013A	Na (588.995 nm)	148.9757 o (ppm)	0.71	148.9757 (ppm)	6769170.2325
11/1/2017 02:13:41	R1710073-013A	Ni (230.299 nm)	0.5002 (ppm)	0.40	0.5002 (ppm)	3348.8257
11/1/2017 02:13:41	R1710073-013A	Pb (220.353 nm)	0.4974 (ppm)	0.84	0.4974 (ppm)	1067.8806
11/1/2017 02:13:41	R1710073-013A	Sb (217.582 nm)	0.5106 (ppm)	0.56	0.5106 (ppm)	699.1064
11/1/2017 02:13:41	R1710073-013A	Se (196.026 nm)	1.1973 o (ppm)	0.46	1.1973 (ppm)	1026.1579
11/1/2017 02:13:41	R1710073-013A	Sn (189.925 nm)	5.1189 (ppm)	0.44	5.1189 (ppm)	6198.6309
11/1/2017 02:13:41	R1710073-013A	Sr (216.596 nm)	2.4722 (ppm)	0.51	2.4722 (ppm)	35101.4152
11/1/2017 02:13:41	R1710073-013A	Ti (336.122 nm)	0.4856 (ppm)	0.35	0.4856 (ppm)	101128.4521

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:13:41	R1710073-013A	Tl (351.923 nm)	1.9288 (ppm)	0.44	1.9288 (ppm)	5305.2419
11/1/2017 02:13:41	R1710073-013A	V (292.401 nm)	0.4942 (ppm)	0.42	0.4942 (ppm)	17579.0151
11/1/2017 02:13:41	R1710073-013A	Y (360.074 nm)	0.93 (Ratio)	0.65	0.93 (Ratio)	794929.77
11/1/2017 02:13:41	R1710073-013A	Y_R (360.074 nm)	0.93 (Ratio)	0.65	0.93 (Ratio)	795197.72
11/1/2017 02:13:41	R1710073-013A	Zn (213.857 nm)	0.5225 (ppm)	0.32	0.5225 (ppm)	14590.4931
11/1/2017 02:17:00	R1710073-013L	Ag (328.068 nm)	-0.0001 u (ppm)	43.01	-0.0001 (ppm)	-111.2457
11/1/2017 02:17:00	R1710073-013L	Al (394.401 nm)	0.0043 u (ppm)	> 100.00	0.0043 (ppm)	180.8405
11/1/2017 02:17:00	R1710073-013L	As (188.980 nm)	0.0016 (ppm)	15.15	0.0016 (ppm)	0.0143
11/1/2017 02:17:00	R1710073-013L	B (249.772 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	88.7572
11/1/2017 02:17:00	R1710073-013L	Ba (230.424 nm)	0.0122 (ppm)	86.17	0.0122 (ppm)	413.1662
11/1/2017 02:17:00	R1710073-013L	Be (313.107 nm)	0.0003 (ppm)	1.21	0.0003 (ppm)	-88.0540
11/1/2017 02:17:00	R1710073-013L	Ca (227.547 nm)	1.8153 (ppm)	> 100.00	1.8153 (ppm)	106.6047
11/1/2017 02:17:00	R1710073-013L	Cd (214.439 nm)	-0.0003 u (ppm)	14.53	-0.0003 (ppm)	6.3034
11/1/2017 02:17:00	R1710073-013L	Co (230.786 nm)	0.0005 (ppm)	76.45	0.0005 (ppm)	1.8286
11/1/2017 02:17:00	R1710073-013L	Cr (267.716 nm)	0.0001 (ppm)	14.81	0.0001 (ppm)	3.9563
11/1/2017 02:17:00	R1710073-013L	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	14.5334
11/1/2017 02:17:00	R1710073-013L	Fe (234.350 nm)	0.0018 (ppm)	89.07	0.0018 (ppm)	31.6176
11/1/2017 02:17:00	R1710073-013L	K (766.491 nm)	0.3608 (ppm)	> 100.00	0.3608 (ppm)	1079.6824
11/1/2017 02:17:00	R1710073-013L	Mg (279.078 nm)	0.4524 (ppm)	> 100.00	0.4524 (ppm)	872.2831
11/1/2017 02:17:00	R1710073-013L	Mn (257.610 nm)	0.0032 (ppm)	> 100.00	0.0032 (ppm)	1012.6457
11/1/2017 02:17:00	R1710073-013L	Mo (202.032 nm)	0.0008 (ppm)	89.05	0.0008 (ppm)	15.0470
11/1/2017 02:17:00	R1710073-013L	Na (588.995 nm)	7.3217 (ppm)	> 100.00	7.3217 (ppm)	327492.0057
11/1/2017 02:17:00	R1710073-013L	Ni (230.299 nm)	0.0022 (ppm)	7.85	0.0022 (ppm)	-5.4944
11/1/2017 02:17:00	R1710073-013L	Pb (220.353 nm)	-0.0012 u (ppm)	18.78	-0.0012 (ppm)	2.4508
11/1/2017 02:17:00	R1710073-013L	Sb (217.582 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	1.0794
11/1/2017 02:17:00	R1710073-013L	Se (196.026 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	1.3181
11/1/2017 02:17:00	R1710073-013L	Sn (189.925 nm)	0.0024 (ppm)	60.71	0.0024 (ppm)	2.8763
11/1/2017 02:17:00	R1710073-013L	Sr (216.596 nm)	0.0301 (ppm)	85.61	0.0301 (ppm)	427.2656
11/1/2017 02:17:00	R1710073-013L	Ti (336.122 nm)	0.0034 (ppm)	46.47	0.0034 (ppm)	219.7082
11/1/2017 02:17:00	R1710073-013L	Tl (351.923 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	5.6584
11/1/2017 02:17:00	R1710073-013L	V (292.401 nm)	-0.0017 u (ppm)	19.62	-0.0017 (ppm)	48.3678
11/1/2017 02:17:00	R1710073-013L	Y (360.074 nm)	2.84 (Ratio)	15.90	2.84 (Ratio)	2422412.05
11/1/2017 02:17:00	R1710073-013L	Y_R (360.074 nm)	2.84 (Ratio)	15.90	2.84 (Ratio)	2423600.13
11/1/2017 02:17:00	R1710073-013L	Zn (213.857 nm)	0.0010 (ppm)	32.92	0.0010 (ppm)	1.0356
11/1/2017 02:20:18	R1710073-014	Ag (328.068 nm)	-0.0001 u (ppm)	39.03	-0.0001 (ppm)	-107.9858
11/1/2017 02:20:18	R1710073-014	Al (394.401 nm)	0.0523 (ppm)	1.71	0.0523 (ppm)	794.9771
11/1/2017 02:20:18	R1710073-014	As (188.980 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-0.5393
11/1/2017 02:20:18	R1710073-014	B (249.772 nm)	0.0370 (ppm)	0.50	0.0370 (ppm)	1059.1373
11/1/2017 02:20:18	R1710073-014	Ba (230.424 nm)	0.1631 (ppm)	0.38	0.1631 (ppm)	5484.5938
11/1/2017 02:20:18	R1710073-014	Be (313.107 nm)	0.0001 (ppm)	1.11	0.0001 (ppm)	-343.9319
11/1/2017 02:20:18	R1710073-014	Ca (227.547 nm)	35.8099 (ppm)	0.38	35.8099 (ppm)	2020.3494
11/1/2017 02:20:18	R1710073-014	Cd (214.439 nm)	0.0003 (ppm)	30.08	0.0003 (ppm)	20.3974
11/1/2017 02:20:18	R1710073-014	Co (230.786 nm)	0.0005 (ppm)	96.51	0.0005 (ppm)	1.5852
11/1/2017 02:20:18	R1710073-014	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.8283
11/1/2017 02:20:18	R1710073-014	Cu (327.395 nm)	0.0007 (ppm)	24.53	0.0007 (ppm)	54.0704
11/1/2017 02:20:18	R1710073-014	Fe (234.350 nm)	0.0029 (ppm)	15.96	0.0029 (ppm)	44.4945
11/1/2017 02:20:18	R1710073-014	K (766.491 nm)	6.7737 (ppm)	0.57	6.7737 (ppm)	20429.3481
11/1/2017 02:20:18	R1710073-014	Mg (279.078 nm)	9.4121 (ppm)	0.37	9.4121 (ppm)	18161.7240
11/1/2017 02:20:18	R1710073-014	Mn (257.610 nm)	0.0497 (ppm)	0.34	0.0497 (ppm)	15595.7764
11/1/2017 02:20:18	R1710073-014	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	8.8065
11/1/2017 02:20:18	R1710073-014	Na (588.995 nm)	136.7389 o (ppm)	0.71	136.7389 (ppm)	6212704.4860

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:20:18	R1710073-014	Ni (230.299 nm)	0.0024 (ppm)	13.71	0.0024 (ppm)	-4.7661
11/1/2017 02:20:18	R1710073-014	Pb (220.353 nm)	-0.0009 u (ppm)	77.57	-0.0009 (ppm)	3.2275
11/1/2017 02:20:18	R1710073-014	Sb (217.582 nm)	-0.0052 u (ppm)	58.94	-0.0052 (ppm)	-6.2740
11/1/2017 02:20:18	R1710073-014	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	0.5631
11/1/2017 02:20:18	R1710073-014	Sn (189.925 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	1.0694
11/1/2017 02:20:18	R1710073-014	Sr (216.596 nm)	0.4074 (ppm)	0.47	0.4074 (ppm)	5783.7622
11/1/2017 02:20:18	R1710073-014	Ti (336.122 nm)	0.0010 (ppm)	1.60	0.0010 (ppm)	-279.4395
11/1/2017 02:20:18	R1710073-014	Tl (351.923 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	10.1502
11/1/2017 02:20:18	R1710073-014	V (292.401 nm)	0.0003 (ppm)	51.45	0.0003 (ppm)	121.1041
11/1/2017 02:20:18	R1710073-014	Y (360.074 nm)	0.92 (Ratio)	0.57	0.92 (Ratio)	787558.30
11/1/2017 02:20:18	R1710073-014	Y_R (360.074 nm)	0.92 (Ratio)	0.56	0.92 (Ratio)	787790.87
11/1/2017 02:20:18	R1710073-014	Zn (213.857 nm)	0.0036 (ppm)	5.23	0.0036 (ppm)	73.9927
11/1/2017 02:23:37	R1710073-014S	Ag (328.068 nm)	0.0512 (ppm)	0.39	0.0512 (ppm)	3553.8667
11/1/2017 02:23:37	R1710073-014S	Al (394.401 nm)	2.0795 (ppm)	0.34	2.0795 (ppm)	26738.9382
11/1/2017 02:23:37	R1710073-014S	As (188.980 nm)	0.0446 (ppm)	7.26	0.0446 (ppm)	38.3749
11/1/2017 02:23:37	R1710073-014S	B (249.772 nm)	1.0291 (ppm)	0.29	1.0291 (ppm)	28526.2363
11/1/2017 02:23:37	R1710073-014S	Ba (230.424 nm)	2.2485 (ppm)	0.25	2.2485 (ppm)	75592.7158
11/1/2017 02:23:37	R1710073-014S	Be (313.107 nm)	0.0511 (ppm)	0.37	0.0511 (ppm)	74916.7353
11/1/2017 02:23:37	R1710073-014S	Ca (227.547 nm)	38.4438 (ppm)	0.15	38.4438 (ppm)	2168.6253
11/1/2017 02:23:37	R1710073-014S	Cd (214.439 nm)	0.0526 (ppm)	0.06	0.0526 (ppm)	1153.0128
11/1/2017 02:23:37	R1710073-014S	Co (230.786 nm)	0.5201 (ppm)	0.27	0.5201 (ppm)	5131.3644
11/1/2017 02:23:37	R1710073-014S	Cr (267.716 nm)	0.2024 (ppm)	0.32	0.2024 (ppm)	10019.4060
11/1/2017 02:23:37	R1710073-014S	Cu (327.395 nm)	0.2492 (ppm)	0.33	0.2492 (ppm)	15482.1138
11/1/2017 02:23:37	R1710073-014S	Fe (234.350 nm)	0.9922 (ppm)	0.35	0.9922 (ppm)	11093.8259
11/1/2017 02:23:37	R1710073-014S	K (766.491 nm)	27.8895 (ppm)	0.33	27.8895 (ppm)	84141.8646
11/1/2017 02:23:37	R1710073-014S	Mg (279.078 nm)	11.5752 (ppm)	0.40	11.5752 (ppm)	22335.7846
11/1/2017 02:23:37	R1710073-014S	Mn (257.610 nm)	0.5497 (ppm)	0.18	0.5497 (ppm)	172309.2141
11/1/2017 02:23:37	R1710073-014S	Mo (202.032 nm)	0.4927 (ppm)	0.21	0.4927 (ppm)	5029.4703
11/1/2017 02:23:37	R1710073-014S	Na (588.995 nm)	156.0617 o (ppm)	0.62	156.0617 (ppm)	7091403.1087
11/1/2017 02:23:37	R1710073-014S	Ni (230.299 nm)	0.5179 (ppm)	0.24	0.5179 (ppm)	3468.4533
11/1/2017 02:23:37	R1710073-014S	Pb (220.353 nm)	0.5156 (ppm)	0.20	0.5156 (ppm)	1106.6350
11/1/2017 02:23:37	R1710073-014S	Sb (217.582 nm)	0.5219 (ppm)	0.73	0.5219 (ppm)	714.5481
11/1/2017 02:23:37	R1710073-014S	Se (196.026 nm)	1.1576 o (ppm)	0.11	1.1576 (ppm)	992.1757
11/1/2017 02:23:37	R1710073-014S	Sn (189.925 nm)	5.2151 (ppm)	0.49	5.2151 (ppm)	6315.1497
11/1/2017 02:23:37	R1710073-014S	Sr (216.596 nm)	2.4925 (ppm)	0.25	2.4925 (ppm)	35389.5448
11/1/2017 02:23:37	R1710073-014S	Ti (336.122 nm)	0.4982 (ppm)	0.36	0.4982 (ppm)	103759.2545
11/1/2017 02:23:37	R1710073-014S	Tl (351.923 nm)	2.0027 (ppm)	0.35	2.0027 (ppm)	5508.0432
11/1/2017 02:23:37	R1710073-014S	V (292.401 nm)	0.5126 (ppm)	0.39	0.5126 (ppm)	18226.6132
11/1/2017 02:23:37	R1710073-014S	Y (360.074 nm)	0.92 (Ratio)	0.64	0.92 (Ratio)	782825.22
11/1/2017 02:23:37	R1710073-014S	Y_R (360.074 nm)	0.92 (Ratio)	0.64	0.92 (Ratio)	783028.37
11/1/2017 02:23:37	R1710073-014S	Zn (213.857 nm)	0.5368 (ppm)	0.46	0.5368 (ppm)	14991.9106
11/1/2017 02:26:56	R1710073-014SD	Ag (328.068 nm)	0.0512 (ppm)	0.71	0.0512 (ppm)	3554.1042
11/1/2017 02:26:56	R1710073-014SD	Al (394.401 nm)	2.0770 (ppm)	0.76	2.0770 (ppm)	26706.2575
11/1/2017 02:26:56	R1710073-014SD	As (188.980 nm)	0.0428 (ppm)	10.10	0.0428 (ppm)	36.7622
11/1/2017 02:26:56	R1710073-014SD	B (249.772 nm)	1.0470 (ppm)	0.57	1.0470 (ppm)	29021.9376
11/1/2017 02:26:56	R1710073-014SD	Ba (230.424 nm)	2.2597 (ppm)	0.84	2.2597 (ppm)	75971.9038
11/1/2017 02:26:56	R1710073-014SD	Be (313.107 nm)	0.0520 (ppm)	0.63	0.0520 (ppm)	76259.4081
11/1/2017 02:26:56	R1710073-014SD	Ca (227.547 nm)	38.2061 (ppm)	0.84	38.2061 (ppm)	2155.2392
11/1/2017 02:26:56	R1710073-014SD	Cd (214.439 nm)	0.0528 (ppm)	0.09	0.0528 (ppm)	1156.3370
11/1/2017 02:26:56	R1710073-014SD	Co (230.786 nm)	0.5221 (ppm)	0.75	0.5221 (ppm)	5151.0605
11/1/2017 02:26:56	R1710073-014SD	Cr (267.716 nm)	0.2043 (ppm)	0.62	0.2043 (ppm)	10115.4396

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:26:56	R1710073-014SD	Cu (327.395 nm)	0.2501 (ppm)	0.76	0.2501 (ppm)	15539.4933
11/1/2017 02:26:56	R1710073-014SD	Fe (234.350 nm)	1.0022 (ppm)	0.63	1.0022 (ppm)	11205.1923
11/1/2017 02:26:56	R1710073-014SD	K (766.491 nm)	27.6763 (ppm)	0.93	27.6763 (ppm)	83498.3829
11/1/2017 02:26:56	R1710073-014SD	Mg (279.078 nm)	11.5173 (ppm)	0.49	11.5173 (ppm)	22224.0795
11/1/2017 02:26:56	R1710073-014SD	Mn (257.610 nm)	0.5526 (ppm)	0.59	0.5526 (ppm)	173198.1154
11/1/2017 02:26:56	R1710073-014SD	Mo (202.032 nm)	0.4966 (ppm)	0.60	0.4966 (ppm)	5069.1072
11/1/2017 02:26:56	R1710073-014SD	Na (588.995 nm)	155.2226 o (ppm)	0.95	155.2226 (ppm)	7053246.6389
11/1/2017 02:26:56	R1710073-014SD	Ni (230.299 nm)	0.5191 (ppm)	0.89	0.5191 (ppm)	3476.5087
11/1/2017 02:26:56	R1710073-014SD	Pb (220.353 nm)	0.5175 (ppm)	0.88	0.5175 (ppm)	1110.8208
11/1/2017 02:26:56	R1710073-014SD	Sb (217.582 nm)	0.5211 (ppm)	1.39	0.5211 (ppm)	713.4378
11/1/2017 02:26:56	R1710073-014SD	Se (196.026 nm)	1.1438 o (ppm)	0.51	1.1438 (ppm)	980.3875
11/1/2017 02:26:56	R1710073-014SD	Sn (189.925 nm)	5.2876 (ppm)	0.60	5.2876 (ppm)	6402.9273
11/1/2017 02:26:56	R1710073-014SD	Sr (216.596 nm)	2.4919 (ppm)	0.38	2.4919 (ppm)	35381.6679
11/1/2017 02:26:56	R1710073-014SD	Ti (336.122 nm)	0.4997 (ppm)	0.68	0.4997 (ppm)	104075.8226
11/1/2017 02:26:56	R1710073-014SD	Tl (351.923 nm)	1.9996 (ppm)	0.59	1.9996 (ppm)	5499.5749
11/1/2017 02:26:56	R1710073-014SD	V (292.401 nm)	0.5155 (ppm)	0.57	0.5155 (ppm)	18329.3237
11/1/2017 02:26:56	R1710073-014SD	Y (360.074 nm)	0.91 (Ratio)	0.99	0.91 (Ratio)	772695.30
11/1/2017 02:26:56	R1710073-014SD	Y_R (360.074 nm)	0.90 (Ratio)	0.99	0.90 (Ratio)	772913.49
11/1/2017 02:26:56	R1710073-014SD	Zn (213.857 nm)	0.5370 (ppm)	0.26	0.5370 (ppm)	14996.3179
11/1/2017 02:30:15	Continuing Calibration Verification1	Ag (328.068 nm)	0.4994 (ppm)	0.66	0.4994 (ppm)	35580.8077
11/1/2017 02:30:15	Continuing Calibration Verification1	Al (394.401 nm)	9.5735 (ppm)	0.60	9.5735 (ppm)	122644.7625
11/1/2017 02:30:15	Continuing Calibration Verification1	As (188.980 nm)	0.9882 (ppm)	0.90	0.9882 (ppm)	881.9480
11/1/2017 02:30:15	Continuing Calibration Verification1	B (249.772 nm)	2.4643 (ppm)	0.45	2.4643 (ppm)	68262.4192
11/1/2017 02:30:15	Continuing Calibration Verification1	Ba (230.424 nm)	10.5882 (ppm)	0.24	10.5882 (ppm)	355967.9209
11/1/2017 02:30:15	Continuing Calibration Verification1	Be (313.107 nm)	0.2587 (ppm)	0.57	0.2587 (ppm)	381566.5654
11/1/2017 02:30:15	Continuing Calibration Verification1	Ca (227.547 nm)	24.2651 (ppm)	0.74	24.2651 (ppm)	1370.4289
11/1/2017 02:30:15	Continuing Calibration Verification1	Cd (214.439 nm)	0.5188 (ppm)	0.56	0.5188 (ppm)	11245.3395
11/1/2017 02:30:15	Continuing Calibration Verification1	Co (230.786 nm)	2.6699 (ppm)	0.40	2.6699 (ppm)	26355.4558
11/1/2017 02:30:15	Continuing Calibration Verification1	Cr (267.716 nm)	0.5235 (ppm)	0.41	0.5235 (ppm)	25922.0393
11/1/2017 02:30:15	Continuing Calibration Verification1	Cu (327.395 nm)	1.2009 (ppm)	0.57	1.2009 (ppm)	74569.4786
11/1/2017 02:30:15	Continuing Calibration Verification1	Fe (234.350 nm)	4.9851 (ppm)	0.38	4.9851 (ppm)	55691.5054
11/1/2017 02:30:15	Continuing Calibration Verification1	K (766.491 nm)	24.5113 (ppm)	0.65	24.5113 (ppm)	73948.7372
11/1/2017 02:30:15	Continuing Calibration Verification1	Mg (279.078 nm)	25.9021 (ppm)	0.36	25.9021 (ppm)	49982.2383
11/1/2017 02:30:15	Continuing Calibration Verification1	Mn (257.610 nm)	0.7725 (ppm)	0.45	0.7725 (ppm)	242129.5808
11/1/2017 02:30:15	Continuing Calibration Verification1	Mo (202.032 nm)	2.4834 (ppm)	0.39	2.4834 (ppm)	25321.4653
11/1/2017 02:30:15	Continuing Calibration Verification1	Na (588.995 nm)	24.7108 (ppm)	0.82	24.7108 (ppm)	1118256.0803
11/1/2017 02:30:15	Continuing Calibration Verification1	Ni (230.299 nm)	2.0936 (ppm)	0.50	2.0936 (ppm)	14083.5034
11/1/2017 02:30:15	Continuing Calibration Verification1	Pb (220.353 nm)	0.5150 (ppm)	0.52	0.5150 (ppm)	1105.3764
11/1/2017 02:30:15	Continuing Calibration Verification1	Sb (217.582 nm)	4.9998 (ppm)	0.58	4.9998 (ppm)	6838.2232
11/1/2017 02:30:15	Continuing Calibration Verification1	Se (196.026 nm)	0.5097 (ppm)	0.18	0.5097 (ppm)	437.3133
11/1/2017 02:30:15	Continuing Calibration Verification1	Sn (189.925 nm)	5.2795 (ppm)	0.80	5.2795 (ppm)	6393.0807
11/1/2017 02:30:15	Continuing Calibration Verification1	Sr (216.596 nm)	2.6440 (ppm)	0.25	2.6440 (ppm)	37541.2773
11/1/2017 02:30:15	Continuing Calibration Verification1	Ti (336.122 nm)	2.5411 (ppm)	0.45	2.5411 (ppm)	531201.9468
11/1/2017 02:30:15	Continuing Calibration Verification1	Tl (351.923 nm)	0.9984 (ppm)	0.81	0.9984 (ppm)	2749.6369
11/1/2017 02:30:15	Continuing Calibration Verification1	V (292.401 nm)	2.5763 (ppm)	0.35	2.5763 (ppm)	91174.0157
11/1/2017 02:30:15	Continuing Calibration Verification1	Y (360.074 nm)	0.92 (Ratio)	0.99	0.92 (Ratio)	781335.55
11/1/2017 02:30:15	Continuing Calibration Verification1	Y_R (360.074 nm)	0.91 (Ratio)	0.99	0.91 (Ratio)	781571.67
11/1/2017 02:30:15	Continuing Calibration Verification1	Zn (213.857 nm)	1.0413 (ppm)	0.47	1.0413 (ppm)	29104.9346
11/1/2017 02:33:34	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002 (ppm)	88.33	0.0002 (ppm)	-86.4464
11/1/2017 02:33:34	Continuing Calibration Blank1	Al (394.401 nm)	0.0081 (ppm)	24.51	0.0081 (ppm)	229.4457
11/1/2017 02:33:34	Continuing Calibration Blank1	As (188.980 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	0.2309

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:33:34	Continuing Calibration Blank1	B (249.772 nm)	0.0068 (ppm)	21.70	0.0068 (ppm)	222.9436
11/1/2017 02:33:34	Continuing Calibration Blank1	Ba (230.424 nm)	0.0117 (ppm)	29.00	0.0117 (ppm)	395.3753
11/1/2017 02:33:34	Continuing Calibration Blank1	Be (313.107 nm)	0.0002 (ppm)	25.48	0.0002 (ppm)	-165.3132
11/1/2017 02:33:34	Continuing Calibration Blank1	Ca (227.547 nm)	0.0067 (ppm)	13.47	0.0067 (ppm)	4.7917
11/1/2017 02:33:34	Continuing Calibration Blank1	Cd (214.439 nm)	0.0006 (ppm)	34.46	0.0006 (ppm)	26.9278
11/1/2017 02:33:34	Continuing Calibration Blank1	Co (230.786 nm)	0.0029 (ppm)	24.05	0.0029 (ppm)	25.4902
11/1/2017 02:33:34	Continuing Calibration Blank1	Cr (267.716 nm)	0.0007 (ppm)	33.03	0.0007 (ppm)	32.2092
11/1/2017 02:33:34	Continuing Calibration Blank1	Cu (327.395 nm)	0.0012 (ppm)	35.99	0.0012 (ppm)	90.0847
11/1/2017 02:33:34	Continuing Calibration Blank1	Fe (234.350 nm)	0.0056 (ppm)	31.74	0.0056 (ppm)	74.2250
11/1/2017 02:33:34	Continuing Calibration Blank1	K (766.491 nm)	0.0621 (ppm)	5.81	0.0621 (ppm)	178.6219
11/1/2017 02:33:34	Continuing Calibration Blank1	Mg (279.078 nm)	0.0232 (ppm)	23.62	0.0232 (ppm)	44.1804
11/1/2017 02:33:34	Continuing Calibration Blank1	Mn (257.610 nm)	0.0014 (ppm)	6.40	0.0014 (ppm)	455.8251
11/1/2017 02:33:34	Continuing Calibration Blank1	Mo (202.032 nm)	0.0047 (ppm)	16.18	0.0047 (ppm)	55.0157
11/1/2017 02:33:34	Continuing Calibration Blank1	Na (588.995 nm)	0.0032 u (ppm)	> 100.00	0.0032 (ppm)	-5316.7471
11/1/2017 02:33:34	Continuing Calibration Blank1	Ni (230.299 nm)	0.0015 (ppm)	36.54	0.0015 (ppm)	-10.2498
11/1/2017 02:33:34	Continuing Calibration Blank1	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.2215
11/1/2017 02:33:34	Continuing Calibration Blank1	Sb (217.582 nm)	0.0073 (ppm)	7.39	0.0073 (ppm)	10.8267
11/1/2017 02:33:34	Continuing Calibration Blank1	Se (196.026 nm)	-0.0032 u (ppm)	43.21	-0.0032 (ppm)	-1.9450
11/1/2017 02:33:34	Continuing Calibration Blank1	Sn (189.925 nm)	0.0070 (ppm)	33.33	0.0070 (ppm)	8.3924
11/1/2017 02:33:34	Continuing Calibration Blank1	Sr (216.596 nm)	0.0026 (ppm)	24.26	0.0026 (ppm)	36.1405
11/1/2017 02:33:34	Continuing Calibration Blank1	Ti (336.122 nm)	0.0033 (ppm)	19.06	0.0033 (ppm)	209.8234
11/1/2017 02:33:34	Continuing Calibration Blank1	Tl (351.923 nm)	0.0027 u (ppm)	> 100.00	0.0027 (ppm)	14.6641
11/1/2017 02:33:34	Continuing Calibration Blank1	V (292.401 nm)	0.0029 (ppm)	25.81	0.0029 (ppm)	210.7841
11/1/2017 02:33:34	Continuing Calibration Blank1	Y (360.074 nm)	0.95 (Ratio)	0.69	0.95 (Ratio)	811039.40
11/1/2017 02:33:34	Continuing Calibration Blank1	Y_R (360.074 nm)	0.95 (Ratio)	0.69	0.95 (Ratio)	811366.19
11/1/2017 02:33:34	Continuing Calibration Blank1	Zn (213.857 nm)	0.0011 (ppm)	26.86	0.0011 (ppm)	3.9421
11/1/2017 02:36:52	R1710073-014A	Ag (328.068 nm)	0.0491 (ppm)	0.62	0.0491 (ppm)	3407.3291
11/1/2017 02:36:52	R1710073-014A	Al (394.401 nm)	2.0009 (ppm)	0.49	2.0009 (ppm)	25732.5480
11/1/2017 02:36:52	R1710073-014A	As (188.980 nm)	0.0435 (ppm)	3.91	0.0435 (ppm)	37.4623
11/1/2017 02:36:52	R1710073-014A	B (249.772 nm)	1.1428 (ppm)	0.36	1.1428 (ppm)	31675.8856
11/1/2017 02:36:52	R1710073-014A	Ba (230.424 nm)	2.1675 (ppm)	0.60	2.1675 (ppm)	72869.7166
11/1/2017 02:36:52	R1710073-014A	Be (313.107 nm)	0.0499 (ppm)	0.46	0.0499 (ppm)	73184.0544
11/1/2017 02:36:52	R1710073-014A	Ca (227.547 nm)	37.0837 (ppm)	0.64	37.0837 (ppm)	2092.0542
11/1/2017 02:36:52	R1710073-014A	Cd (214.439 nm)	0.0505 (ppm)	0.47	0.0505 (ppm)	1107.7192
11/1/2017 02:36:52	R1710073-014A	Co (230.786 nm)	0.5016 (ppm)	0.32	0.5016 (ppm)	4948.8052
11/1/2017 02:36:52	R1710073-014A	Cr (267.716 nm)	0.1964 (ppm)	0.43	0.1964 (ppm)	9722.5196
11/1/2017 02:36:52	R1710073-014A	Cu (327.395 nm)	0.2392 (ppm)	0.54	0.2392 (ppm)	14866.1884
11/1/2017 02:36:52	R1710073-014A	Fe (234.350 nm)	0.9583 (ppm)	0.37	0.9583 (ppm)	10715.7909
11/1/2017 02:36:52	R1710073-014A	K (766.491 nm)	26.4221 (ppm)	0.57	26.4221 (ppm)	79714.0247
11/1/2017 02:36:52	R1710073-014A	Mg (279.078 nm)	11.2155 (ppm)	0.50	11.2155 (ppm)	21641.7487
11/1/2017 02:36:52	R1710073-014A	Mn (257.610 nm)	0.5337 (ppm)	0.25	0.5337 (ppm)	167301.3511
11/1/2017 02:36:52	R1710073-014A	Mo (202.032 nm)	0.4821 (ppm)	0.57	0.4821 (ppm)	4921.2991
11/1/2017 02:36:52	R1710073-014A	Na (588.995 nm)	150.4719 o (ppm)	0.66	150.4719 (ppm)	6837208.2807
11/1/2017 02:36:52	R1710073-014A	Ni (230.299 nm)	0.5003 (ppm)	0.35	0.5003 (ppm)	3349.8571
11/1/2017 02:36:52	R1710073-014A	Pb (220.353 nm)	0.4978 (ppm)	0.55	0.4978 (ppm)	1068.5355
11/1/2017 02:36:52	R1710073-014A	Sb (217.582 nm)	0.5042 (ppm)	0.44	0.5042 (ppm)	690.3828
11/1/2017 02:36:52	R1710073-014A	Se (196.026 nm)	1.1849 o (ppm)	0.68	1.1849 (ppm)	1015.5558
11/1/2017 02:36:52	R1710073-014A	Sn (189.925 nm)	5.1229 (ppm)	0.52	5.1229 (ppm)	6203.4824
11/1/2017 02:36:52	R1710073-014A	Sr (216.596 nm)	2.5039 (ppm)	0.37	2.5039 (ppm)	35551.3653
11/1/2017 02:36:52	R1710073-014A	Ti (336.122 nm)	0.4835 (ppm)	0.44	0.4835 (ppm)	100689.2468
11/1/2017 02:36:52	R1710073-014A	Tl (351.923 nm)	1.9119 (ppm)	0.56	1.9119 (ppm)	5258.8751

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:36:52	R1710073-014A	V (292.401 nm)	0.4939 (ppm)	0.36	0.4939 (ppm)	17565.4216
11/1/2017 02:36:52	R1710073-014A	Y (360.074 nm)	0.91 (Ratio)	0.76	0.91 (Ratio)	773129.99
11/1/2017 02:36:52	R1710073-014A	Y_R (360.074 nm)	0.91 (Ratio)	0.76	0.91 (Ratio)	773352.34
11/1/2017 02:36:52	R1710073-014A	Zn (213.857 nm)	0.5200 (ppm)	0.88	0.5200 (ppm)	14520.5721
11/1/2017 02:40:11	R1710073-014L	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-106.1844
11/1/2017 02:40:11	R1710073-014L	Al (394.401 nm)	0.0141 (ppm)	10.49	0.0141 (ppm)	306.8085
11/1/2017 02:40:11	R1710073-014L	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-1.7200
11/1/2017 02:40:11	R1710073-014L	B (249.772 nm)	0.0100 (ppm)	9.30	0.0100 (ppm)	311.0437
11/1/2017 02:40:11	R1710073-014L	Ba (230.424 nm)	0.0356 (ppm)	7.18	0.0356 (ppm)	1197.1682
11/1/2017 02:40:11	R1710073-014L	Be (313.107 nm)	0.0001 (ppm)	47.20	0.0001 (ppm)	-431.8206
11/1/2017 02:40:11	R1710073-014L	Ca (227.547 nm)	6.7311 (ppm)	0.57	6.7311 (ppm)	383.3433
11/1/2017 02:40:11	R1710073-014L	Cd (214.439 nm)	0.0002 (ppm)	23.76	0.0002 (ppm)	17.4669
11/1/2017 02:40:11	R1710073-014L	Co (230.786 nm)	0.0005 (ppm)	78.87	0.0005 (ppm)	1.6340
11/1/2017 02:40:11	R1710073-014L	Cr (267.716 nm)	0.0002 (ppm)	76.45	0.0002 (ppm)	8.9247
11/1/2017 02:40:11	R1710073-014L	Cu (327.395 nm)	0.0003 (ppm)	87.18	0.0003 (ppm)	33.3667
11/1/2017 02:40:11	R1710073-014L	Fe (234.350 nm)	0.0026 (ppm)	26.77	0.0026 (ppm)	40.9732
11/1/2017 02:40:11	R1710073-014L	K (766.491 nm)	1.2628 (ppm)	1.19	1.2628 (ppm)	3801.3329
11/1/2017 02:40:11	R1710073-014L	Mg (279.078 nm)	1.8825 (ppm)	0.61	1.8825 (ppm)	3631.8915
11/1/2017 02:40:11	R1710073-014L	Mn (257.610 nm)	0.0108 (ppm)	1.30	0.0108 (ppm)	3377.3140
11/1/2017 02:40:11	R1710073-014L	Mo (202.032 nm)	0.0016 (ppm)	47.93	0.0016 (ppm)	23.2362
11/1/2017 02:40:11	R1710073-014L	Na (588.995 nm)	27.9977 (ppm)	0.67	27.9977 (ppm)	1267727.1648
11/1/2017 02:40:11	R1710073-014L	Ni (230.299 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-16.9375
11/1/2017 02:40:11	R1710073-014L	Pb (220.353 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	6.1986
11/1/2017 02:40:11	R1710073-014L	Sb (217.582 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	2.8889
11/1/2017 02:40:11	R1710073-014L	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	1.2056
11/1/2017 02:40:11	R1710073-014L	Sn (189.925 nm)	0.0027 (ppm)	63.70	0.0027 (ppm)	3.1731
11/1/2017 02:40:11	R1710073-014L	Sr (216.596 nm)	0.0836 (ppm)	1.51	0.0836 (ppm)	1185.7566
11/1/2017 02:40:11	R1710073-014L	Ti (336.122 nm)	0.0008 (ppm)	33.33	0.0008 (ppm)	-313.2133
11/1/2017 02:40:11	R1710073-014L	Tl (351.923 nm)	0.0021 (ppm)	> 100.00	0.0021 (ppm)	13.0271
11/1/2017 02:40:11	R1710073-014L	V (292.401 nm)	0.0007 (ppm)	35.25	0.0007 (ppm)	133.1566
11/1/2017 02:40:11	R1710073-014L	Y (360.074 nm)	0.93 (Ratio)	1.07	0.93 (Ratio)	792943.14
11/1/2017 02:40:11	R1710073-014L	Y_R (360.074 nm)	0.93 (Ratio)	1.06	0.93 (Ratio)	793272.08
11/1/2017 02:40:11	R1710073-014L	Zn (213.857 nm)	0.0024 (ppm)	7.55	0.0024 (ppm)	40.3830
11/1/2017 02:43:31	R1710073-015	Ag (328.068 nm)	-0.0001 u (ppm)	87.39	-0.0001 (ppm)	-110.6672
11/1/2017 02:43:31	R1710073-015	Al (394.401 nm)	0.2184 (ppm)	0.31	0.2184 (ppm)	2920.5117
11/1/2017 02:43:31	R1710073-015	As (188.980 nm)	0.0017 (ppm)	96.56	0.0017 (ppm)	0.0203
11/1/2017 02:43:31	R1710073-015	B (249.772 nm)	0.0400 (ppm)	0.95	0.0400 (ppm)	1140.7461
11/1/2017 02:43:31	R1710073-015	Ba (230.424 nm)	0.1476 (ppm)	0.18	0.1476 (ppm)	4964.7017
11/1/2017 02:43:31	R1710073-015	Be (313.107 nm)	0.0001 (ppm)	5.28	0.0001 (ppm)	-350.4657
11/1/2017 02:43:31	R1710073-015	Ca (227.547 nm)	24.7674 (ppm)	0.91	24.7674 (ppm)	1398.7071
11/1/2017 02:43:31	R1710073-015	Cd (214.439 nm)	0.0002 (ppm)	58.35	0.0002 (ppm)	18.8661
11/1/2017 02:43:31	R1710073-015	Co (230.786 nm)	0.0017 (ppm)	6.95	0.0017 (ppm)	13.4016
11/1/2017 02:43:31	R1710073-015	Cr (267.716 nm)	-0.0004 u (ppm)	33.90	-0.0004 (ppm)	-22.1834
11/1/2017 02:43:31	R1710073-015	Cu (327.395 nm)	0.0007 (ppm)	17.35	0.0007 (ppm)	56.4920
11/1/2017 02:43:31	R1710073-015	Fe (234.350 nm)	0.0122 (ppm)	4.39	0.0122 (ppm)	148.4802
11/1/2017 02:43:31	R1710073-015	K (766.491 nm)	4.3019 (ppm)	0.67	4.3019 (ppm)	12971.1703
11/1/2017 02:43:31	R1710073-015	Mg (279.078 nm)	5.4174 (ppm)	0.56	5.4174 (ppm)	10453.2278
11/1/2017 02:43:31	R1710073-015	Mn (257.610 nm)	0.7120 (ppm)	0.42	0.7120 (ppm)	223163.8683
11/1/2017 02:43:31	R1710073-015	Mo (202.032 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	11.1605
11/1/2017 02:43:31	R1710073-015	Na (588.995 nm)	99.6854 o (ppm)	0.70	99.6854 (ppm)	4527704.6682
11/1/2017 02:43:31	R1710073-015	Ni (230.299 nm)	0.0004 (ppm)	23.44	0.0004 (ppm)	-18.1587

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:43:31	R1710073-015	Pb (220.353 nm)	-0.0010 u (ppm)	45.67	-0.0010 (ppm)	2.8211
11/1/2017 02:43:31	R1710073-015	Sb (217.582 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-0.8419
11/1/2017 02:43:31	R1710073-015	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-0.2460
11/1/2017 02:43:31	R1710073-015	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.1878
11/1/2017 02:43:31	R1710073-015	Sr (216.596 nm)	0.1983 (ppm)	1.07	0.1983 (ppm)	2814.6134
11/1/2017 02:43:31	R1710073-015	Ti (336.122 nm)	0.0008 (ppm)	1.67	0.0008 (ppm)	-322.7484
11/1/2017 02:43:31	R1710073-015	Tl (351.923 nm)	0.0023 u (ppm)	> 100.00	0.0023 (ppm)	13.5961
11/1/2017 02:43:31	R1710073-015	V (292.401 nm)	0.0004 (ppm)	45.02	0.0004 (ppm)	121.8748
11/1/2017 02:43:31	R1710073-015	Y (360.074 nm)	0.92 (Ratio)	0.72	0.92 (Ratio)	783053.73
11/1/2017 02:43:31	R1710073-015	Y_R (360.074 nm)	0.92 (Ratio)	0.72	0.92 (Ratio)	783307.27
11/1/2017 02:43:31	R1710073-015	Zn (213.857 nm)	0.0038 (ppm)	1.52	0.0038 (ppm)	78.8754
11/1/2017 02:46:49	R1710073-016	Ag (328.068 nm)	-0.0002 u (ppm)	74.67	-0.0002 (ppm)	-115.8745
11/1/2017 02:46:49	R1710073-016	Al (394.401 nm)	0.2147 (ppm)	0.79	0.2147 (ppm)	2873.9952
11/1/2017 02:46:49	R1710073-016	As (188.980 nm)	0.0009 (ppm)	62.99	0.0009 (ppm)	-0.6695
11/1/2017 02:46:49	R1710073-016	B (249.772 nm)	0.0401 (ppm)	0.60	0.0401 (ppm)	1144.9266
11/1/2017 02:46:49	R1710073-016	Ba (230.424 nm)	0.1498 (ppm)	0.50	0.1498 (ppm)	5037.5717
11/1/2017 02:46:49	R1710073-016	Be (313.107 nm)	0.0001 (ppm)	12.80	0.0001 (ppm)	-379.1067
11/1/2017 02:46:49	R1710073-016	Ca (227.547 nm)	25.5657 (ppm)	0.56	25.5657 (ppm)	1443.6481
11/1/2017 02:46:49	R1710073-016	Cd (214.439 nm)	0.0001 (ppm)	53.68	0.0001 (ppm)	16.5066
11/1/2017 02:46:49	R1710073-016	Co (230.786 nm)	0.0016 (ppm)	37.99	0.0016 (ppm)	12.4055
11/1/2017 02:46:49	R1710073-016	Cr (267.716 nm)	-0.0003 u (ppm)	14.62	-0.0003 (ppm)	-18.0652
11/1/2017 02:46:49	R1710073-016	Cu (327.395 nm)	0.0038 (ppm)	2.35	0.0038 (ppm)	246.9595
11/1/2017 02:46:49	R1710073-016	Fe (234.350 nm)	0.0064 (ppm)	5.14	0.0064 (ppm)	83.7497
11/1/2017 02:46:49	R1710073-016	K (766.491 nm)	4.3643 (ppm)	0.68	4.3643 (ppm)	13159.3848
11/1/2017 02:46:49	R1710073-016	Mg (279.078 nm)	5.5674 (ppm)	0.56	5.5674 (ppm)	10742.7440
11/1/2017 02:46:49	R1710073-016	Mn (257.610 nm)	0.7382 (ppm)	0.56	0.7382 (ppm)	231383.4545
11/1/2017 02:46:49	R1710073-016	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	8.4304
11/1/2017 02:46:49	R1710073-016	Na (588.995 nm)	101.7392 o (ppm)	0.65	101.7392 (ppm)	4621102.5636
11/1/2017 02:46:49	R1710073-016	Ni (230.299 nm)	0.0018 (ppm)	32.01	0.0018 (ppm)	-8.7407
11/1/2017 02:46:49	R1710073-016	Pb (220.353 nm)	-0.0010 u (ppm)	67.59	-0.0010 (ppm)	2.9407
11/1/2017 02:46:49	R1710073-016	Sb (217.582 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	1.7963
11/1/2017 02:46:49	R1710073-016	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	-0.2832
11/1/2017 02:46:49	R1710073-016	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.0304
11/1/2017 02:46:49	R1710073-016	Sr (216.596 nm)	0.2026 (ppm)	0.43	0.2026 (ppm)	2875.5373
11/1/2017 02:46:49	R1710073-016	Ti (336.122 nm)	0.0007 (ppm)	7.64	0.0007 (ppm)	-339.8309
11/1/2017 02:46:49	R1710073-016	Tl (351.923 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	12.2298
11/1/2017 02:46:49	R1710073-016	V (292.401 nm)	0.0003 (ppm)	16.10	0.0003 (ppm)	121.3365
11/1/2017 02:46:49	R1710073-016	Y (360.074 nm)	0.91 (Ratio)	0.80	0.91 (Ratio)	774128.88
11/1/2017 02:46:49	R1710073-016	Y_R (360.074 nm)	0.91 (Ratio)	0.80	0.91 (Ratio)	774385.05
11/1/2017 02:46:49	R1710073-016	Zn (213.857 nm)	0.0086 (ppm)	0.86	0.0086 (ppm)	213.7381
11/1/2017 02:50:08	R1710073-017	Ag (328.068 nm)	-0.0001 u (ppm)	84.01	-0.0001 (ppm)	-111.4166
11/1/2017 02:50:08	R1710073-017	Al (394.401 nm)	0.0401 (ppm)	0.56	0.0401 (ppm)	639.2301
11/1/2017 02:50:08	R1710073-017	As (188.980 nm)	0.0035 (ppm)	34.02	0.0035 (ppm)	1.6602
11/1/2017 02:50:08	R1710073-017	B (249.772 nm)	0.0097 (ppm)	3.25	0.0097 (ppm)	301.7134
11/1/2017 02:50:08	R1710073-017	Ba (230.424 nm)	0.0603 (ppm)	0.88	0.0603 (ppm)	2029.9100
11/1/2017 02:50:08	R1710073-017	Be (313.107 nm)	0.0000 (ppm)	49.06	0.0000 (ppm)	-496.0970
11/1/2017 02:50:08	R1710073-017	Ca (227.547 nm)	9.7124 (ppm)	0.87	9.7124 (ppm)	551.1756
11/1/2017 02:50:08	R1710073-017	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	15.5551
11/1/2017 02:50:08	R1710073-017	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-5.9358
11/1/2017 02:50:08	R1710073-017	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.8618
11/1/2017 02:50:08	R1710073-017	Cu (327.395 nm)	0.0004 (ppm)	21.12	0.0004 (ppm)	37.9620

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:50:08	R1710073-017	Fe (234.350 nm)	11.6348 o (ppm)	0.50	11.6348 (ppm)	129964.1124
11/1/2017 02:50:08	R1710073-017	K (766.491 nm)	3.3916 (ppm)	0.79	3.3916 (ppm)	10224.6284
11/1/2017 02:50:08	R1710073-017	Mg (279.078 nm)	10.1299 (ppm)	0.53	10.1299 (ppm)	19546.8364
11/1/2017 02:50:08	R1710073-017	Mn (257.610 nm)	0.4492 (ppm)	0.48	0.4492 (ppm)	140795.9059
11/1/2017 02:50:08	R1710073-017	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	6.4378
11/1/2017 02:50:08	R1710073-017	Na (588.995 nm)	11.2076 (ppm)	0.84	11.2076 (ppm)	504203.7160
11/1/2017 02:50:08	R1710073-017	Ni (230.299 nm)	-0.0077 u (ppm)	12.33	-0.0077 (ppm)	-72.7975
11/1/2017 02:50:08	R1710073-017	Pb (220.353 nm)	-0.0023 u (ppm)	54.27	-0.0023 (ppm)	0.1701
11/1/2017 02:50:08	R1710073-017	Sb (217.582 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-1.5649
11/1/2017 02:50:08	R1710073-017	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-0.1290
11/1/2017 02:50:08	R1710073-017	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.3915
11/1/2017 02:50:08	R1710073-017	Sr (216.596 nm)	0.1561 (ppm)	0.82	0.1561 (ppm)	2216.3811
11/1/2017 02:50:08	R1710073-017	Ti (336.122 nm)	0.0010 (ppm)	5.38	0.0010 (ppm)	-277.7337
11/1/2017 02:50:08	R1710073-017	Tl (351.923 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	10.0096
11/1/2017 02:50:08	R1710073-017	V (292.401 nm)	0.0006 (ppm)	6.31	0.0006 (ppm)	129.7246
11/1/2017 02:50:08	R1710073-017	Y (360.074 nm)	0.93 (Ratio)	0.90	0.93 (Ratio)	790252.59
11/1/2017 02:50:08	R1710073-017	Y_R (360.074 nm)	0.93 (Ratio)	0.90	0.93 (Ratio)	790622.34
11/1/2017 02:50:08	R1710073-017	Zn (213.857 nm)	0.0052 (ppm)	1.21	0.0052 (ppm)	117.5011
11/1/2017 02:53:26	R1710073-018	Ag (328.068 nm)	-0.0002 u (ppm)	56.32	-0.0002 (ppm)	-115.3401
11/1/2017 02:53:26	R1710073-018	Al (394.401 nm)	0.0105 (ppm)	6.44	0.0105 (ppm)	260.8345
11/1/2017 02:53:26	R1710073-018	As (188.980 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-0.6898
11/1/2017 02:53:26	R1710073-018	B (249.772 nm)	0.0092 (ppm)	1.78	0.0092 (ppm)	289.6524
11/1/2017 02:53:26	R1710073-018	Ba (230.424 nm)	0.0594 (ppm)	1.05	0.0594 (ppm)	1998.7010
11/1/2017 02:53:26	R1710073-018	Be (313.107 nm)	0.0000 (ppm)	80.35	0.0000 (ppm)	-504.6627
11/1/2017 02:53:26	R1710073-018	Ca (227.547 nm)	9.6320 (ppm)	1.09	9.6320 (ppm)	546.6515
11/1/2017 02:53:26	R1710073-018	Cd (214.439 nm)	0.0002 (ppm)	44.14	0.0002 (ppm)	17.0276
11/1/2017 02:53:26	R1710073-018	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.0678
11/1/2017 02:53:26	R1710073-018	Cr (267.716 nm)	-0.0002 u (ppm)	61.52	-0.0002 (ppm)	-12.7730
11/1/2017 02:53:26	R1710073-018	Cu (327.395 nm)	0.0001 (ppm)	59.34	0.0001 (ppm)	17.2329
11/1/2017 02:53:26	R1710073-018	Fe (234.350 nm)	11.1640 o (ppm)	0.56	11.1640 (ppm)	124705.6900
11/1/2017 02:53:26	R1710073-018	K (766.491 nm)	3.3639 (ppm)	0.61	3.3639 (ppm)	10140.9699
11/1/2017 02:53:26	R1710073-018	Mg (279.078 nm)	9.9950 (ppm)	0.52	9.9950 (ppm)	19286.5907
11/1/2017 02:53:26	R1710073-018	Mn (257.610 nm)	0.4393 (ppm)	0.50	0.4393 (ppm)	137692.9981
11/1/2017 02:53:26	R1710073-018	Mo (202.032 nm)	0.0002 (ppm)	90.63	0.0002 (ppm)	9.5499
11/1/2017 02:53:26	R1710073-018	Na (588.995 nm)	11.0691 (ppm)	0.61	11.0691 (ppm)	497902.3556
11/1/2017 02:53:26	R1710073-018	Ni (230.299 nm)	-0.0073 u (ppm)	17.18	-0.0073 (ppm)	-70.1187
11/1/2017 02:53:26	R1710073-018	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	4.3785
11/1/2017 02:53:26	R1710073-018	Sb (217.582 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-0.1219
11/1/2017 02:53:26	R1710073-018	Se (196.026 nm)	-0.0018 u (ppm)	47.80	-0.0018 (ppm)	-0.7646
11/1/2017 02:53:26	R1710073-018	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.7901
11/1/2017 02:53:26	R1710073-018	Sr (216.596 nm)	0.1550 (ppm)	0.65	0.1550 (ppm)	2200.4956
11/1/2017 02:53:26	R1710073-018	Ti (336.122 nm)	0.0005 (ppm)	5.73	0.0005 (ppm)	-385.9665
11/1/2017 02:53:26	R1710073-018	Tl (351.923 nm)	0.0021 (ppm)	> 100.00	0.0021 (ppm)	12.9654
11/1/2017 02:53:26	R1710073-018	V (292.401 nm)	0.0005 (ppm)	40.94	0.0005 (ppm)	127.6890
11/1/2017 02:53:26	R1710073-018	Y (360.074 nm)	0.93 (Ratio)	0.87	0.93 (Ratio)	793701.45
11/1/2017 02:53:26	R1710073-018	Y_R (360.074 nm)	0.93 (Ratio)	0.87	0.93 (Ratio)	794043.53
11/1/2017 02:53:26	R1710073-018	Zn (213.857 nm)	0.0070 (ppm)	1.26	0.0070 (ppm)	169.7568
11/1/2017 02:56:45	R1710073-019	Ag (328.068 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-111.3460
11/1/2017 02:56:45	R1710073-019	Al (394.401 nm)	0.2326 (ppm)	0.39	0.2326 (ppm)	3103.1269
11/1/2017 02:56:45	R1710073-019	As (188.980 nm)	0.1542 (ppm)	0.72	0.1542 (ppm)	136.3517
11/1/2017 02:56:45	R1710073-019	B (249.772 nm)	0.0235 (ppm)	0.25	0.0235 (ppm)	685.7554

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 02:56:45	R1710073-019	Ba (230.424 nm)	0.0218 (ppm)	0.71	0.0218 (ppm)	734.2627
11/1/2017 02:56:45	R1710073-019	Be (313.107 nm)	0.0000 (ppm)	20.88	0.0000 (ppm)	-457.3189
11/1/2017 02:56:45	R1710073-019	Ca (227.547 nm)	29.2400 (ppm)	0.54	29.2400 (ppm)	1650.4938
11/1/2017 02:56:45	R1710073-019	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	16.0409
11/1/2017 02:56:45	R1710073-019	Co (230.786 nm)	0.0003 (ppm)	55.85	0.0003 (ppm)	-0.9233
11/1/2017 02:56:45	R1710073-019	Cr (267.716 nm)	0.0002 (ppm)	34.37	0.0002 (ppm)	10.8602
11/1/2017 02:56:45	R1710073-019	Cu (327.395 nm)	0.0003 (ppm)	17.13	0.0003 (ppm)	30.3421
11/1/2017 02:56:45	R1710073-019	Fe (234.350 nm)	12.2646 o (ppm)	0.37	12.2646 (ppm)	136998.4867
11/1/2017 02:56:45	R1710073-019	K (766.491 nm)	4.4023 (ppm)	0.53	4.4023 (ppm)	13274.1843
11/1/2017 02:56:45	R1710073-019	Mg (279.078 nm)	9.4068 (ppm)	0.45	9.4068 (ppm)	18151.5138
11/1/2017 02:56:45	R1710073-019	Mn (257.610 nm)	0.1486 (ppm)	0.26	0.1486 (ppm)	46593.2558
11/1/2017 02:56:45	R1710073-019	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	8.4761
11/1/2017 02:56:45	R1710073-019	Na (588.995 nm)	38.1129 (ppm)	0.65	38.1129 (ppm)	1727712.5793
11/1/2017 02:56:45	R1710073-019	Ni (230.299 nm)	-0.0073 u (ppm)	21.43	-0.0073 (ppm)	-69.6148
11/1/2017 02:56:45	R1710073-019	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.1776
11/1/2017 02:56:45	R1710073-019	Sb (217.582 nm)	-0.0013 u (ppm)	24.01	-0.0013 (ppm)	-0.9944
11/1/2017 02:56:45	R1710073-019	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	1.5267
11/1/2017 02:56:45	R1710073-019	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.0948
11/1/2017 02:56:45	R1710073-019	Sr (216.596 nm)	0.2304 (ppm)	0.21	0.2304 (ppm)	3270.9436
11/1/2017 02:56:45	R1710073-019	Ti (336.122 nm)	0.0027 (ppm)	2.80	0.0027 (ppm)	78.8066
11/1/2017 02:56:45	R1710073-019	Tl (351.923 nm)	0.0025 u (ppm)	> 100.00	0.0025 (ppm)	14.1227
11/1/2017 02:56:45	R1710073-019	V (292.401 nm)	0.0013 (ppm)	2.99	0.0013 (ppm)	154.7400
11/1/2017 02:56:45	R1710073-019	Y (360.074 nm)	0.92 (Ratio)	0.56	0.92 (Ratio)	784008.95
11/1/2017 02:56:45	R1710073-019	Y_R (360.074 nm)	0.92 (Ratio)	0.57	0.92 (Ratio)	784344.20
11/1/2017 02:56:45	R1710073-019	Zn (213.857 nm)	0.0042 (ppm)	1.81	0.0042 (ppm)	91.4046
11/1/2017 03:00:04	R1710073-020	Ag (328.068 nm)	-0.0001 u (ppm)	56.37	-0.0001 (ppm)	-110.9897
11/1/2017 03:00:04	R1710073-020	Al (394.401 nm)	0.0318 (ppm)	3.99	0.0318 (ppm)	532.3214
11/1/2017 03:00:04	R1710073-020	As (188.980 nm)	0.0179 (ppm)	15.22	0.0179 (ppm)	14.5407
11/1/2017 03:00:04	R1710073-020	B (249.772 nm)	0.0207 (ppm)	0.69	0.0207 (ppm)	606.3838
11/1/2017 03:00:04	R1710073-020	Ba (230.424 nm)	0.0201 (ppm)	0.87	0.0201 (ppm)	677.9363
11/1/2017 03:00:04	R1710073-020	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-525.8273
11/1/2017 03:00:04	R1710073-020	Ca (227.547 nm)	28.8452 (ppm)	0.43	28.8452 (ppm)	1628.2642
11/1/2017 03:00:04	R1710073-020	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	12.1351
11/1/2017 03:00:04	R1710073-020	Co (230.786 nm)	0.0004 (ppm)	49.23	0.0004 (ppm)	0.1622
11/1/2017 03:00:04	R1710073-020	Cr (267.716 nm)	0.0008 (ppm)	12.85	0.0008 (ppm)	37.8355
11/1/2017 03:00:04	R1710073-020	Cu (327.395 nm)	0.0002 (ppm)	9.00	0.0002 (ppm)	25.6087
11/1/2017 03:00:04	R1710073-020	Fe (234.350 nm)	5.3766 (ppm)	0.53	5.3766 (ppm)	60064.8553
11/1/2017 03:00:04	R1710073-020	K (766.491 nm)	4.3223 (ppm)	0.78	4.3223 (ppm)	13032.6910
11/1/2017 03:00:04	R1710073-020	Mg (279.078 nm)	9.2581 (ppm)	0.54	9.2581 (ppm)	17864.5752
11/1/2017 03:00:04	R1710073-020	Mn (257.610 nm)	0.1398 (ppm)	0.29	0.1398 (ppm)	43831.8984
11/1/2017 03:00:04	R1710073-020	Mo (202.032 nm)	0.0006 (ppm)	49.82	0.0006 (ppm)	13.6959
11/1/2017 03:00:04	R1710073-020	Na (588.995 nm)	37.6212 (ppm)	0.72	37.6212 (ppm)	1705353.6204
11/1/2017 03:00:04	R1710073-020	Ni (230.299 nm)	-0.0036 u (ppm)	19.73	-0.0036 (ppm)	-44.8298
11/1/2017 03:00:04	R1710073-020	Pb (220.353 nm)	-0.0013 u (ppm)	82.47	-0.0013 (ppm)	2.2282
11/1/2017 03:00:04	R1710073-020	Sb (217.582 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-0.6169
11/1/2017 03:00:04	R1710073-020	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-0.3923
11/1/2017 03:00:04	R1710073-020	Sn (189.925 nm)	-0.0018 u (ppm)	91.30	-0.0018 (ppm)	-2.2220
11/1/2017 03:00:04	R1710073-020	Sr (216.596 nm)	0.2252 (ppm)	0.56	0.2252 (ppm)	3196.5337
11/1/2017 03:00:04	R1710073-020	Ti (336.122 nm)	0.0006 (ppm)	2.48	0.0006 (ppm)	-352.0858
11/1/2017 03:00:04	R1710073-020	Tl (351.923 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	10.3135
11/1/2017 03:00:04	R1710073-020	V (292.401 nm)	0.0006 (ppm)	3.72	0.0006 (ppm)	128.6370

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 03:00:04	R1710073-020	Y (360.074 nm)	0.91 (Ratio)	0.78	0.91 (Ratio)	778628.30
11/1/2017 03:00:04	R1710073-020	Y_R (360.074 nm)	0.91 (Ratio)	0.78	0.91 (Ratio)	779024.84
11/1/2017 03:00:04	R1710073-020	Zn (213.857 nm)	0.0041 (ppm)	2.24	0.0041 (ppm)	88.5137
11/1/2017 03:03:22	R1710073-021	Ag (328.068 nm)	0.0000 u (ppm)	75.14	0.0000 (ppm)	-106.7806
11/1/2017 03:03:22	R1710073-021	Al (394.401 nm)	0.0591 (ppm)	0.94	0.0591 (ppm)	882.5484
11/1/2017 03:03:22	R1710073-021	As (188.980 nm)	0.0180 (ppm)	7.88	0.0180 (ppm)	14.6657
11/1/2017 03:03:22	R1710073-021	B (249.772 nm)	0.0168 (ppm)	0.59	0.0168 (ppm)	499.7929
11/1/2017 03:03:22	R1710073-021	Ba (230.424 nm)	0.0329 (ppm)	0.70	0.0329 (ppm)	1106.9567
11/1/2017 03:03:22	R1710073-021	Be (313.107 nm)	0.0003 (ppm)	3.80	0.0003 (ppm)	-127.7912
11/1/2017 03:03:22	R1710073-021	Ca (227.547 nm)	23.0752 (ppm)	0.59	23.0752 (ppm)	1303.4437
11/1/2017 03:03:22	R1710073-021	Cd (214.439 nm)	0.0002 (ppm)	73.43	0.0002 (ppm)	17.3444
11/1/2017 03:03:22	R1710073-021	Co (230.786 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	-1.7493
11/1/2017 03:03:22	R1710073-021	Cr (267.716 nm)	0.0002 (ppm)	25.73	0.0002 (ppm)	7.8108
11/1/2017 03:03:22	R1710073-021	Cu (327.395 nm)	0.0006 (ppm)	6.97	0.0006 (ppm)	49.0797
11/1/2017 03:03:22	R1710073-021	Fe (234.350 nm)	8.0861 (ppm)	0.28	8.0861 (ppm)	90328.0304
11/1/2017 03:03:22	R1710073-021	K (766.491 nm)	3.8135 (ppm)	0.35	3.8135 (ppm)	11497.5307
11/1/2017 03:03:22	R1710073-021	Mg (279.078 nm)	7.6242 (ppm)	0.35	7.6242 (ppm)	14711.5809
11/1/2017 03:03:22	R1710073-021	Mn (257.610 nm)	0.1459 (ppm)	0.13	0.1459 (ppm)	45720.6648
11/1/2017 03:03:22	R1710073-021	Mo (202.032 nm)	0.0003 (ppm)	50.04	0.0003 (ppm)	10.1481
11/1/2017 03:03:22	R1710073-021	Na (588.995 nm)	30.2380 (ppm)	0.43	30.2380 (ppm)	1369604.6357
11/1/2017 03:03:22	R1710073-021	Ni (230.299 nm)	-0.0077 u (ppm)	16.48	-0.0077 (ppm)	-72.2313
11/1/2017 03:03:22	R1710073-021	Pb (220.353 nm)	-0.0011 u (ppm)	32.35	-0.0011 (ppm)	2.5977
11/1/2017 03:03:22	R1710073-021	Sb (217.582 nm)	-0.0023 u (ppm)	82.24	-0.0023 (ppm)	-2.3898
11/1/2017 03:03:22	R1710073-021	Se (196.026 nm)	0.0039 (ppm)	53.22	0.0039 (ppm)	4.1436
11/1/2017 03:03:22	R1710073-021	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.0638
11/1/2017 03:03:22	R1710073-021	Sr (216.596 nm)	0.1759 (ppm)	0.24	0.1759 (ppm)	2496.3063
11/1/2017 03:03:22	R1710073-021	Ti (336.122 nm)	0.0018 (ppm)	2.25	0.0018 (ppm)	-109.0752
11/1/2017 03:03:22	R1710073-021	Tl (351.923 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	3.5323
11/1/2017 03:03:22	R1710073-021	V (292.401 nm)	0.0008 (ppm)	0.63	0.0008 (ppm)	136.0706
11/1/2017 03:03:22	R1710073-021	Y (360.074 nm)	0.92 (Ratio)	0.65	0.92 (Ratio)	783113.84
11/1/2017 03:03:22	R1710073-021	Y_R (360.074 nm)	0.92 (Ratio)	0.65	0.92 (Ratio)	783474.46
11/1/2017 03:03:22	R1710073-021	Zn (213.857 nm)	0.0066 (ppm)	0.62	0.0066 (ppm)	157.2659
11/1/2017 03:06:41	R1710073-022	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-104.3618
11/1/2017 03:06:41	R1710073-022	Al (394.401 nm)	0.0227 (ppm)	0.30	0.0227 (ppm)	416.4696
11/1/2017 03:06:41	R1710073-022	As (188.980 nm)	0.0065 (ppm)	23.29	0.0065 (ppm)	4.3333
11/1/2017 03:06:41	R1710073-022	B (249.772 nm)	0.0155 (ppm)	1.71	0.0155 (ppm)	464.1896
11/1/2017 03:06:41	R1710073-022	Ba (230.424 nm)	0.0339 (ppm)	0.25	0.0339 (ppm)	1139.9608
11/1/2017 03:06:41	R1710073-022	Be (313.107 nm)	0.0001 (ppm)	5.59	0.0001 (ppm)	-327.5143
11/1/2017 03:06:41	R1710073-022	Ca (227.547 nm)	23.0834 (ppm)	0.47	23.0834 (ppm)	1303.9032
11/1/2017 03:06:41	R1710073-022	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.5951
11/1/2017 03:06:41	R1710073-022	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.9486
11/1/2017 03:06:41	R1710073-022	Cr (267.716 nm)	-0.0002 u (ppm)	24.57	-0.0002 (ppm)	-10.6976
11/1/2017 03:06:41	R1710073-022	Cu (327.395 nm)	0.0003 (ppm)	80.63	0.0003 (ppm)	32.1481
11/1/2017 03:06:41	R1710073-022	Fe (234.350 nm)	4.2717 (ppm)	0.46	4.2717 (ppm)	47723.5952
11/1/2017 03:06:41	R1710073-022	K (766.491 nm)	3.8525 (ppm)	0.69	3.8525 (ppm)	11615.2679
11/1/2017 03:06:41	R1710073-022	Mg (279.078 nm)	7.5993 (ppm)	0.35	7.5993 (ppm)	14663.5864
11/1/2017 03:06:41	R1710073-022	Mn (257.610 nm)	0.1459 (ppm)	0.13	0.1459 (ppm)	45729.0131
11/1/2017 03:06:41	R1710073-022	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	8.6231
11/1/2017 03:06:41	R1710073-022	Na (588.995 nm)	30.6576 (ppm)	0.60	30.6576 (ppm)	1388684.2356
11/1/2017 03:06:41	R1710073-022	Ni (230.299 nm)	-0.0070 u (ppm)	7.30	-0.0070 (ppm)	-68.1030
11/1/2017 03:06:41	R1710073-022	Pb (220.353 nm)	-0.0008 u (ppm)	43.16	-0.0008 (ppm)	3.2592

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 03:06:41	R1710073-022	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	0.5540
11/1/2017 03:06:41	R1710073-022	Se (196.026 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	1.4099
11/1/2017 03:06:41	R1710073-022	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.6254
11/1/2017 03:06:41	R1710073-022	Sr (216.596 nm)	0.1742 (ppm)	0.28	0.1742 (ppm)	2473.3929
11/1/2017 03:06:41	R1710073-022	Ti (336.122 nm)	0.0008 (ppm)	4.84	0.0008 (ppm)	-323.0738
11/1/2017 03:06:41	R1710073-022	Tl (351.923 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	2.9217
11/1/2017 03:06:41	R1710073-022	V (292.401 nm)	0.0004 (ppm)	24.03	0.0004 (ppm)	123.4497
11/1/2017 03:06:41	R1710073-022	Y (360.074 nm)	0.92 (Ratio)	0.69	0.92 (Ratio)	784723.10
11/1/2017 03:06:41	R1710073-022	Y_R (360.074 nm)	0.92 (Ratio)	0.69	0.92 (Ratio)	785139.91
11/1/2017 03:06:41	R1710073-022	Zn (213.857 nm)	0.0073 (ppm)	1.09	0.0073 (ppm)	178.6316
11/1/2017 03:10:00	Continuing Calibration Verification1	Ag (328.068 nm)	0.5017 (ppm)	0.35	0.5017 (ppm)	35744.1982
11/1/2017 03:10:00	Continuing Calibration Verification1	Al (394.401 nm)	9.6109 (ppm)	0.60	9.6109 (ppm)	123123.3898
11/1/2017 03:10:00	Continuing Calibration Verification1	As (188.980 nm)	1.0031 (ppm)	0.60	1.0031 (ppm)	895.2504
11/1/2017 03:10:00	Continuing Calibration Verification1	B (249.772 nm)	2.4781 (ppm)	0.39	2.4781 (ppm)	68645.3655
11/1/2017 03:10:00	Continuing Calibration Verification1	Ba (230.424 nm)	10.6398 (ppm)	0.47	10.6398 (ppm)	357701.5459
11/1/2017 03:10:00	Continuing Calibration Verification1	Be (313.107 nm)	0.2606 (ppm)	0.39	0.2606 (ppm)	384465.1701
11/1/2017 03:10:00	Continuing Calibration Verification1	Ca (227.547 nm)	24.3786 (ppm)	0.78	24.3786 (ppm)	1376.8149
11/1/2017 03:10:00	Continuing Calibration Verification1	Cd (214.439 nm)	0.5260 (ppm)	0.47	0.5260 (ppm)	11400.3761
11/1/2017 03:10:00	Continuing Calibration Verification1	Co (230.786 nm)	2.6934 (ppm)	0.40	2.6934 (ppm)	26587.9332
11/1/2017 03:10:00	Continuing Calibration Verification1	Cr (267.716 nm)	0.5258 (ppm)	0.37	0.5258 (ppm)	26033.1195
11/1/2017 03:10:00	Continuing Calibration Verification1	Cu (327.395 nm)	1.2099 (ppm)	0.49	1.2099 (ppm)	75131.9411
11/1/2017 03:10:00	Continuing Calibration Verification1	Fe (234.350 nm)	5.0301 (ppm)	0.47	5.0301 (ppm)	56194.6710
11/1/2017 03:10:00	Continuing Calibration Verification1	K (766.491 nm)	24.4289 (ppm)	0.63	24.4289 (ppm)	73700.1925
11/1/2017 03:10:00	Continuing Calibration Verification1	Mg (279.078 nm)	26.0579 (ppm)	0.48	26.0579 (ppm)	50282.8647
11/1/2017 03:10:00	Continuing Calibration Verification1	Mn (257.610 nm)	0.7784 (ppm)	0.45	0.7784 (ppm)	243981.9553
11/1/2017 03:10:00	Continuing Calibration Verification1	Mo (202.032 nm)	2.4995 (ppm)	0.40	2.4995 (ppm)	25486.5304
11/1/2017 03:10:00	Continuing Calibration Verification1	Na (588.995 nm)	24.6594 (ppm)	0.82	24.6594 (ppm)	1115917.4049
11/1/2017 03:10:00	Continuing Calibration Verification1	Ni (230.299 nm)	2.1134 (ppm)	0.49	2.1134 (ppm)	14216.7650
11/1/2017 03:10:00	Continuing Calibration Verification1	Pb (220.353 nm)	0.5225 (ppm)	0.84	0.5225 (ppm)	1121.3941
11/1/2017 03:10:00	Continuing Calibration Verification1	Sb (217.582 nm)	5.0180 (ppm)	0.62	5.0180 (ppm)	6863.1538
11/1/2017 03:10:00	Continuing Calibration Verification1	Se (196.026 nm)	0.5112 (ppm)	0.11	0.5112 (ppm)	438.5425
11/1/2017 03:10:00	Continuing Calibration Verification1	Sn (189.925 nm)	5.3385 (ppm)	0.51	5.3385 (ppm)	6464.6056
11/1/2017 03:10:00	Continuing Calibration Verification1	Sr (216.596 nm)	2.6561 (ppm)	0.37	2.6561 (ppm)	37712.4526
11/1/2017 03:10:00	Continuing Calibration Verification1	Ti (336.122 nm)	2.5565 (ppm)	0.34	2.5565 (ppm)	534417.9683
11/1/2017 03:10:00	Continuing Calibration Verification1	Tl (351.923 nm)	1.0021 (ppm)	0.49	1.0021 (ppm)	2759.8876
11/1/2017 03:10:00	Continuing Calibration Verification1	V (292.401 nm)	2.5913 (ppm)	0.49	2.5913 (ppm)	91701.3153
11/1/2017 03:10:00	Continuing Calibration Verification1	Y (360.074 nm)	0.89 (Ratio)	1.00	0.89 (Ratio)	757691.18
11/1/2017 03:10:00	Continuing Calibration Verification1	Y_R (360.074 nm)	0.89 (Ratio)	1.00	0.89 (Ratio)	758080.58
11/1/2017 03:10:00	Continuing Calibration Verification1	Zn (213.857 nm)	1.0497 (ppm)	0.44	1.0497 (ppm)	29340.4603
11/1/2017 03:13:18	Continuing Calibration Blank1	Ag (328.068 nm)	0.0005 (ppm)	83.75	0.0005 (ppm)	-68.8925
11/1/2017 03:13:18	Continuing Calibration Blank1	Al (394.401 nm)	0.0103 (ppm)	61.48	0.0103 (ppm)	257.3868
11/1/2017 03:13:18	Continuing Calibration Blank1	As (188.980 nm)	0.0024 (ppm)	62.86	0.0024 (ppm)	0.6457
11/1/2017 03:13:18	Continuing Calibration Blank1	B (249.772 nm)	0.0063 (ppm)	41.90	0.0063 (ppm)	208.0020
11/1/2017 03:13:18	Continuing Calibration Blank1	Ba (230.424 nm)	0.0139 (ppm)	59.74	0.0139 (ppm)	470.1224
11/1/2017 03:13:18	Continuing Calibration Blank1	Be (313.107 nm)	0.0003 (ppm)	61.20	0.0003 (ppm)	-111.9139
11/1/2017 03:13:18	Continuing Calibration Blank1	Ca (227.547 nm)	0.0445 (ppm)	33.97	0.0445 (ppm)	6.9211
11/1/2017 03:13:18	Continuing Calibration Blank1	Cd (214.439 nm)	0.0007 (ppm)	67.81	0.0007 (ppm)	28.7174
11/1/2017 03:13:18	Continuing Calibration Blank1	Co (230.786 nm)	0.0031 Z (ppm)	53.33	0.0031 (ppm)	26.9431 Z
11/1/2017 03:13:18	Continuing Calibration Blank1	Cr (267.716 nm)	0.0006 (ppm)	63.86	0.0006 (ppm)	27.2360
11/1/2017 03:13:18	Continuing Calibration Blank1	Cu (327.395 nm)	0.0015 (ppm)	53.05	0.0015 (ppm)	106.3740
11/1/2017 03:13:18	Continuing Calibration Blank1	Fe (234.350 nm)	0.0066 (ppm)	52.34	0.0066 (ppm)	86.0053

0.050u

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 03:13:18	Continuing Calibration Blank1	K (766.491 nm)	0.0611 (ppm)	43.59	0.0611 (ppm)	175.6157
11/1/2017 03:13:18	Continuing Calibration Blank1	Mg (279.078 nm)	0.0261 (ppm)	69.82	0.0261 (ppm)	49.6098
11/1/2017 03:13:18	Continuing Calibration Blank1	Mn (257.610 nm)	0.0014 (ppm)	32.38	0.0014 (ppm)	451.6414
11/1/2017 03:13:18	Continuing Calibration Blank1	Mo (202.032 nm)	0.0050 (ppm)	26.40	0.0050 (ppm)	57.7514
11/1/2017 03:13:18	Continuing Calibration Blank1	Na (588.995 nm)	-0.0093 u (ppm)	> 100.00	-0.0093 (ppm)	-5884.6775
11/1/2017 03:13:18	Continuing Calibration Blank1	Ni (230.299 nm)	0.0016 (ppm)	90.29	0.0016 (ppm)	-9.9378
11/1/2017 03:13:18	Continuing Calibration Blank1	Pb (220.353 nm)	0.0008 (ppm)	35.29	0.0008 (ppm)	6.7401
11/1/2017 03:13:18	Continuing Calibration Blank1	Sb (217.582 nm)	0.0049 (ppm)	70.09	0.0049 (ppm)	7.5394
11/1/2017 03:13:18	Continuing Calibration Blank1	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	0.5565
11/1/2017 03:13:18	Continuing Calibration Blank1	Sn (189.925 nm)	0.0062 (ppm)	56.92	0.0062 (ppm)	7.3920
11/1/2017 03:13:18	Continuing Calibration Blank1	Sr (216.596 nm)	0.0030 (ppm)	59.57	0.0030 (ppm)	41.7491
11/1/2017 03:13:18	Continuing Calibration Blank1	Ti (336.122 nm)	0.0037 (ppm)	46.02	0.0037 (ppm)	286.0445
11/1/2017 03:13:18	Continuing Calibration Blank1	Tl (351.923 nm)	0.0046 (ppm)	17.02	0.0046 (ppm)	19.8073
11/1/2017 03:13:18	Continuing Calibration Blank1	V (292.401 nm)	0.0031 Z (ppm)	57.75	0.0031 (ppm)	218.7701 Z
11/1/2017 03:13:18	Continuing Calibration Blank1	Y (360.074 nm)	0.92 (Ratio)	0.84	0.92 (Ratio)	784837.07
11/1/2017 03:13:18	Continuing Calibration Blank1	Y_R (360.074 nm)	0.92 (Ratio)	0.84	0.92 (Ratio)	785298.22
11/1/2017 03:13:18	Continuing Calibration Blank1	Zn (213.857 nm)	0.0011 (ppm)	63.16	0.0011 (ppm)	3.4278
11/1/2017 03:16:37	Contract Required Detection Limit	Ag (328.068 nm)	0.0099 (ppm)	2.02	0.0099 (ppm)	600.6755
11/1/2017 03:16:37	Contract Required Detection Limit	Al (394.401 nm)	0.1792 (ppm)	0.93	0.1792 (ppm)	2419.7803
11/1/2017 03:16:37	Contract Required Detection Limit	As (188.980 nm)	0.0204 (ppm)	12.42	0.0204 (ppm)	16.7678
11/1/2017 03:16:37	Contract Required Detection Limit	B (249.772 nm)	0.1957 (ppm)	0.60	0.1957 (ppm)	5452.7122
11/1/2017 03:16:37	Contract Required Detection Limit	Ba (230.424 nm)	0.2211 (ppm)	0.41	0.2211 (ppm)	7434.6091
11/1/2017 03:16:37	Contract Required Detection Limit	Be (313.107 nm)	0.0051 (ppm)	0.42	0.0051 (ppm)	6981.0462
11/1/2017 03:16:37	Contract Required Detection Limit	Ca (227.547 nm)	0.9837 (ppm)	1.89	0.9837 (ppm)	59.7897
11/1/2017 03:16:37	Contract Required Detection Limit	Cd (214.439 nm)	0.0110 (ppm)	0.28	0.0110 (ppm)	250.8538
11/1/2017 03:16:37	Contract Required Detection Limit	Co (230.786 nm)	0.0539 (ppm)	0.88	0.0539 (ppm)	528.4063
11/1/2017 03:16:37	Contract Required Detection Limit	Cr (267.716 nm)	0.0109 (ppm)	0.78	0.0109 (ppm)	536.6242
11/1/2017 03:16:37	Contract Required Detection Limit	Cu (327.395 nm)	0.0247 (ppm)	1.25	0.0247 (ppm)	1545.0872
11/1/2017 03:16:37	Contract Required Detection Limit	Fe (234.350 nm)	0.1083 (ppm)	0.23	0.1083 (ppm)	1220.9455
11/1/2017 03:16:37	Contract Required Detection Limit	K (766.491 nm)	0.9419 (ppm)	0.75	0.9419 (ppm)	2833.2743
11/1/2017 03:16:37	Contract Required Detection Limit	Mg (279.078 nm)	1.0389 (ppm)	0.36	1.0389 (ppm)	2003.9945
11/1/2017 03:16:37	Contract Required Detection Limit	Mn (257.610 nm)	0.0169 (ppm)	0.77	0.0169 (ppm)	5297.9532
11/1/2017 03:16:37	Contract Required Detection Limit	Mo (202.032 nm)	0.0272 (ppm)	0.86	0.0272 (ppm)	284.2249
11/1/2017 03:16:37	Contract Required Detection Limit	Na (588.995 nm)	0.9619 (ppm)	0.61	0.9619 (ppm)	38284.0429
11/1/2017 03:16:37	Contract Required Detection Limit	Ni (230.299 nm)	0.0417 (ppm)	1.51	0.0417 (ppm)	260.2353
11/1/2017 03:16:37	Contract Required Detection Limit	Pb (220.353 nm)	0.0104 (ppm)	6.42	0.0104 (ppm)	27.2097
11/1/2017 03:16:37	Contract Required Detection Limit	Sb (217.582 nm)	0.0616 (ppm)	2.87	0.0616 (ppm)	84.9907
11/1/2017 03:16:37	Contract Required Detection Limit	Se (196.026 nm)	0.0079 R (ppm)	56.45	0.0079 (ppm)	7.5152 R
11/1/2017 03:16:37	Contract Required Detection Limit	Sn (189.925 nm)	0.5339 (ppm)	0.46	0.5339 (ppm)	646.4053
11/1/2017 03:16:37	Contract Required Detection Limit	Sr (216.596 nm)	0.1075 (ppm)	0.76	0.1075 (ppm)	1526.0926
11/1/2017 03:16:37	Contract Required Detection Limit	Ti (336.122 nm)	0.0522 (ppm)	0.46	0.0522 (ppm)	10437.6357
11/1/2017 03:16:37	Contract Required Detection Limit	Tl (351.923 nm)	0.0221 (ppm)	16.58	0.0221 (ppm)	68.0799
11/1/2017 03:16:37	Contract Required Detection Limit	V (292.401 nm)	0.0518 (ppm)	0.79	0.0518 (ppm)	1940.6443
11/1/2017 03:16:37	Contract Required Detection Limit	Y (360.074 nm)	0.92 (Ratio)	0.89	0.92 (Ratio)	787825.18
11/1/2017 03:16:37	Contract Required Detection Limit	Y_R (360.074 nm)	0.92 (Ratio)	0.89	0.92 (Ratio)	788217.04
11/1/2017 03:16:37	Contract Required Detection Limit	Zn (213.857 nm)	0.0207 (ppm)	0.67	0.0207 (ppm)	552.2575
11/1/2017 03:19:56	Interference Check Solution A	Ag (328.068 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-98.4171
11/1/2017 03:19:56	Interference Check Solution A	Al (394.401 nm)	265.5895 o (ppm)	0.39	265.5895 (ppm)	3399060.5050
11/1/2017 03:19:56	Interference Check Solution A	As (188.980 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-1.6774
11/1/2017 03:19:56	Interference Check Solution A	B (249.772 nm)	0.0422 (ppm)	0.68	0.0422 (ppm)	1202.1078
11/1/2017 03:19:56	Interference Check Solution A	Ba (230.424 nm)	0.0012 (ppm)	32.30	0.0012 (ppm)	41.1672

0.0504

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 03:19:56	Interference Check Solution A	Be (313.107 nm)	0.0000 (ppm)	10.77	0.0000 (ppm)	-581.0469
11/1/2017 03:19:56	Interference Check Solution A	Ca (227.547 nm)	267.3467 o (ppm)	0.40	267.3467 (ppm)	15054.8075
11/1/2017 03:19:56	Interference Check Solution A	Cd (214.439 nm)	-0.0007 u (ppm)	21.38	-0.0007 (ppm)	-2.0460
11/1/2017 03:19:56	Interference Check Solution A	Co (230.786 nm)	-0.0021 u (ppm)	16.47	-0.0021 (ppm)	-24.0703
11/1/2017 03:19:56	Interference Check Solution A	Cr (267.716 nm)	-0.0001 u (ppm)	98.17	-0.0001 (ppm)	-5.4982
11/1/2017 03:19:56	Interference Check Solution A	Cu (327.395 nm)	0.0008 (ppm)	26.50	0.0008 (ppm)	63.7808
11/1/2017 03:19:56	Interference Check Solution A	Fe (234.350 nm)	92.8478 o (ppm)	0.43	92.8478 (ppm)	1037052.3876
11/1/2017 03:19:56	Interference Check Solution A	K (766.491 nm)	0.0586 (ppm)	17.51	0.0586 (ppm)	168.0164
11/1/2017 03:19:56	Interference Check Solution A	Mg (279.078 nm)	276.1091 o (ppm)	0.29	276.1091 (ppm)	532802.5270
11/1/2017 03:19:56	Interference Check Solution A	Mn (257.610 nm)	0.0025 (ppm)	7.18	0.0025 (ppm)	781.6482
11/1/2017 03:19:56	Interference Check Solution A	Mo (202.032 nm)	0.0008 (ppm)	30.82	0.0008 (ppm)	15.2737
11/1/2017 03:19:56	Interference Check Solution A	Na (588.995 nm)	-0.0324 u (ppm)	5.95	-0.0324 (ppm)	-6933.8301
11/1/2017 03:19:56	Interference Check Solution A	Ni (230.299 nm)	-0.0025 u (ppm)	10.75	-0.0025 (ppm)	-37.7089
11/1/2017 03:19:56	Interference Check Solution A	Pb (220.353 nm)	-0.0023 u (ppm)	> 100.00	-0.0023 (ppm)	0.2300
11/1/2017 03:19:56	Interference Check Solution A	Sb (217.582 nm)	-0.0042 u (ppm)	> 100.00	-0.0042 (ppm)	-4.9620
11/1/2017 03:19:56	Interference Check Solution A	Se (196.026 nm)	0.0066 (ppm)	39.70	0.0066 (ppm)	6.4390
11/1/2017 03:19:56	Interference Check Solution A	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-0.9936
11/1/2017 03:19:56	Interference Check Solution A	Sr (216.596 nm)	0.0194 (ppm)	4.45	0.0194 (ppm)	275.2460
11/1/2017 03:19:56	Interference Check Solution A	Ti (336.122 nm)	0.0017 (ppm)	1.84	0.0017 (ppm)	-128.9329
11/1/2017 03:19:56	Interference Check Solution A	Tl (351.923 nm)	0.0042 u (ppm)	93.20	0.0042 (ppm)	18.7465
11/1/2017 03:19:56	Interference Check Solution A	V (292.401 nm)	0.0037 K (ppm)	4.23	0.0037 (ppm)	239.1679 K
11/1/2017 03:19:56	Interference Check Solution A	Y (360.074 nm)	0.82 (Ratio)	0.68	0.82 (Ratio)	703429.35
11/1/2017 03:19:56	Interference Check Solution A	Y_R (360.074 nm)	0.82 (Ratio)	0.68	0.82 (Ratio)	703640.53
11/1/2017 03:19:56	Interference Check Solution A	Zn (213.857 nm)	0.0118 K (ppm)	1.12	0.0118 (ppm)	302.4076 K
11/1/2017 03:23:15	Interference Check Solution AB	Ag (328.068 nm)	0.2193 (ppm)	0.23	0.2193 (ppm)	15568.2937
11/1/2017 03:23:15	Interference Check Solution AB	Al (394.401 nm)	265.8844 o (ppm)	0.33	265.8844 (ppm)	3402834.6540
11/1/2017 03:23:15	Interference Check Solution AB	As (188.980 nm)	0.1053 (ppm)	4.59	0.1053 (ppm)	92.6682
11/1/2017 03:23:15	Interference Check Solution AB	B (249.772 nm)	0.0423 (ppm)	0.27	0.0423 (ppm)	1205.4112
11/1/2017 03:23:15	Interference Check Solution AB	Ba (230.424 nm)	0.5465 (ppm)	0.20	0.5465 (ppm)	18375.2629
11/1/2017 03:23:15	Interference Check Solution AB	Be (313.107 nm)	0.5217 (ppm)	0.12	0.5217 (ppm)	770126.2542
11/1/2017 03:23:15	Interference Check Solution AB	Ca (227.547 nm)	266.1450 o (ppm)	0.26	266.1450 (ppm)	14987.1540
11/1/2017 03:23:15	Interference Check Solution AB	Cd (214.439 nm)	1.0110 (ppm)	0.15	1.0110 (ppm)	21900.4510
11/1/2017 03:23:15	Interference Check Solution AB	Co (230.786 nm)	0.5163 (ppm)	0.43	0.5163 (ppm)	5093.3835
11/1/2017 03:23:15	Interference Check Solution AB	Cr (267.716 nm)	0.5163 (ppm)	0.23	0.5163 (ppm)	25564.8489
11/1/2017 03:23:15	Interference Check Solution AB	Cu (327.395 nm)	0.5249 (ppm)	0.41	0.5249 (ppm)	32599.6053
11/1/2017 03:23:15	Interference Check Solution AB	Fe (234.350 nm)	93.1748 o (ppm)	0.13	93.1748 (ppm)	1040704.7316
11/1/2017 03:23:15	Interference Check Solution AB	K (766.491 nm)	0.0172 (ppm)	38.38	0.0172 (ppm)	43.0266
11/1/2017 03:23:15	Interference Check Solution AB	Mg (279.078 nm)	276.5718 o (ppm)	0.20	276.5718 (ppm)	533695.3916
11/1/2017 03:23:15	Interference Check Solution AB	Mn (257.610 nm)	0.5125 (ppm)	0.14	0.5125 (ppm)	160627.2798
11/1/2017 03:23:15	Interference Check Solution AB	Mo (202.032 nm)	0.0006 (ppm)	41.64	0.0006 (ppm)	13.6270
11/1/2017 03:23:15	Interference Check Solution AB	Na (588.995 nm)	-0.0240 u (ppm)	5.46	-0.0240 (ppm)	-6552.7200
11/1/2017 03:23:15	Interference Check Solution AB	Ni (230.299 nm)	0.9939 (ppm)	0.18	0.9939 (ppm)	6675.0406
11/1/2017 03:23:15	Interference Check Solution AB	Pb (220.353 nm)	0.0507 (ppm)	3.48	0.0507 (ppm)	113.3485
11/1/2017 03:23:15	Interference Check Solution AB	Sb (217.582 nm)	0.6298 (ppm)	0.48	0.6298 (ppm)	862.0476
11/1/2017 03:23:15	Interference Check Solution AB	Se (196.026 nm)	0.0548 (ppm)	12.83	0.0548 (ppm)	47.6741
11/1/2017 03:23:15	Interference Check Solution AB	Sn (189.925 nm)	0.0027 (ppm)	86.38	0.0027 (ppm)	3.1508
11/1/2017 03:23:15	Interference Check Solution AB	Sr (216.596 nm)	0.0206 (ppm)	1.28	0.0206 (ppm)	291.8463
11/1/2017 03:23:15	Interference Check Solution AB	Ti (336.122 nm)	0.0014 (ppm)	3.72	0.0014 (ppm)	-188.8800
11/1/2017 03:23:15	Interference Check Solution AB	Tl (351.923 nm)	0.1178 (ppm)	2.97	0.1178 (ppm)	331.0007
11/1/2017 03:23:15	Interference Check Solution AB	V (292.401 nm)	0.5233 (ppm)	0.23	0.5233 (ppm)	18607.0339
11/1/2017 03:23:15	Interference Check Solution AB	Y (360.074 nm)	0.83 (Ratio)	0.59	0.83 (Ratio)	704668.61

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 03:23:15	Interference Check Solution AB	Y_R (360.074 nm)	0.83 (Ratio)	0.59	0.83 (Ratio)	704857.78
11/1/2017 03:23:15	Interference Check Solution AB	Zn (213.857 nm)	1.0767 (ppm)	0.20	1.0767 (ppm)	30093.7858
11/1/2017 03:26:34	Continuing Calibration Verification	Ag (328.068 nm)	0.5055 (ppm)	0.54	0.5055 (ppm)	36012.3161
11/1/2017 03:26:34	Continuing Calibration Verification	Al (394.401 nm)	9.8088 (ppm)	0.77	9.8088 (ppm)	125655.4601
11/1/2017 03:26:34	Continuing Calibration Verification	As (188.980 nm)	1.0043 (ppm)	0.46	1.0043 (ppm)	896.3075
11/1/2017 03:26:34	Continuing Calibration Verification	B (249.772 nm)	2.4953 (ppm)	0.35	2.4953 (ppm)	69122.3170
11/1/2017 03:26:34	Continuing Calibration Verification	Ba (230.424 nm)	10.7550 (ppm)	0.35	10.7550 (ppm)	361574.9027
11/1/2017 03:26:34	Continuing Calibration Verification	Be (313.107 nm)	0.2635 (ppm)	0.45	0.2635 (ppm)	388771.5110
11/1/2017 03:26:34	Continuing Calibration Verification	Ca (227.547 nm)	24.5421 (ppm)	0.89	24.5421 (ppm)	1386.0192
11/1/2017 03:26:34	Continuing Calibration Verification	Cd (214.439 nm)	0.5313 (ppm)	0.58	0.5313 (ppm)	11516.6877
11/1/2017 03:26:34	Continuing Calibration Verification	Co (230.786 nm)	2.7185 (ppm)	0.59	2.7185 (ppm)	26835.7462
11/1/2017 03:26:34	Continuing Calibration Verification	Cr (267.716 nm)	0.5335 (ppm)	0.51	0.5335 (ppm)	26412.6319
11/1/2017 03:26:34	Continuing Calibration Verification	Cu (327.395 nm)	1.2122 (ppm)	0.58	1.2122 (ppm)	75273.2416
11/1/2017 03:26:34	Continuing Calibration Verification	Fe (234.350 nm)	5.1478 (ppm)	0.82	5.1478 (ppm)	57508.5948
11/1/2017 03:26:34	Continuing Calibration Verification	K (766.491 nm)	24.5056 (ppm)	0.61	24.5056 (ppm)	73931.4334
11/1/2017 03:26:34	Continuing Calibration Verification	Mg (279.078 nm)	26.5149 (ppm)	0.71	26.5149 (ppm)	51164.7063
11/1/2017 03:26:34	Continuing Calibration Verification	Mn (257.610 nm)	0.7865 (ppm)	0.45	0.7865 (ppm)	246535.5484
11/1/2017 03:26:34	Continuing Calibration Verification	Mo (202.032 nm)	2.5276 (ppm)	0.41	2.5276 (ppm)	25772.4325
11/1/2017 03:26:34	Continuing Calibration Verification	Na (588.995 nm)	24.6241 (ppm)	0.77	24.6241 (ppm)	1114314.2044
11/1/2017 03:26:34	Continuing Calibration Verification	Ni (230.299 nm)	2.1356 (ppm)	0.49	2.1356 (ppm)	14366.0025
11/1/2017 03:26:34	Continuing Calibration Verification	Pb (220.353 nm)	0.5234 (ppm)	0.38	0.5234 (ppm)	1123.2852
11/1/2017 03:26:34	Continuing Calibration Verification	Sb (217.582 nm)	5.0610 (ppm)	0.65	5.0610 (ppm)	6922.0124
11/1/2017 03:26:34	Continuing Calibration Verification	Se (196.026 nm)	0.5152 (ppm)	1.78	0.5152 (ppm)	442.0032
11/1/2017 03:26:34	Continuing Calibration Verification	Sn (189.925 nm)	5.3999 (ppm)	0.62	5.3999 (ppm)	6538.8412
11/1/2017 03:26:34	Continuing Calibration Verification	Sr (216.596 nm)	2.7011 (ppm)	0.64	2.7011 (ppm)	38351.1559
11/1/2017 03:26:34	Continuing Calibration Verification	Ti (336.122 nm)	2.5761 (ppm)	0.54	2.5761 (ppm)	538534.3928
11/1/2017 03:26:34	Continuing Calibration Verification	Tl (351.923 nm)	1.0089 (ppm)	0.98	1.0089 (ppm)	2778.3831
11/1/2017 03:26:34	Continuing Calibration Verification	V (292.401 nm)	2.6188 (ppm)	0.43	2.6188 (ppm)	92676.2987
11/1/2017 03:26:34	Continuing Calibration Verification	Y (360.074 nm)	0.88 (Ratio)	0.93	0.88 (Ratio)	754384.19
11/1/2017 03:26:34	Continuing Calibration Verification	Y_R (360.074 nm)	0.88 (Ratio)	0.94	0.88 (Ratio)	754642.10
11/1/2017 03:26:34	Continuing Calibration Verification	Zn (213.857 nm)	1.0625 (ppm)	0.58	1.0625 (ppm)	29698.4938
11/1/2017 03:29:53	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	39.60	0.0001 (ppm)	-96.2642
11/1/2017 03:29:53	Continuing Calibration Blank	Al (394.401 nm)	0.0395 (ppm)	23.63	0.0395 (ppm)	631.9104
11/1/2017 03:29:53	Continuing Calibration Blank	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-0.9910
11/1/2017 03:29:53	Continuing Calibration Blank	B (249.772 nm)	0.0051 (ppm)	26.43	0.0051 (ppm)	175.1164
11/1/2017 03:29:53	Continuing Calibration Blank	Ba (230.424 nm)	0.0056 (ppm)	24.29	0.0056 (ppm)	189.4191
11/1/2017 03:29:53	Continuing Calibration Blank	Be (313.107 nm)	0.0002 (ppm)	23.62	0.0002 (ppm)	-234.7473
11/1/2017 03:29:53	Continuing Calibration Blank	Ca (227.547 nm)	0.0794 (ppm)	37.42	0.0794 (ppm)	8.8862
11/1/2017 03:29:53	Continuing Calibration Blank	Cd (214.439 nm)	0.0005 (ppm)	17.92	0.0005 (ppm)	23.5797
11/1/2017 03:29:53	Continuing Calibration Blank	Co (230.786 nm)	0.0015 (ppm)	36.45	0.0015 (ppm)	11.3990
11/1/2017 03:29:53	Continuing Calibration Blank	Cr (267.716 nm)	0.0004 (ppm)	31.23	0.0004 (ppm)	16.3480
11/1/2017 03:29:53	Continuing Calibration Blank	Cu (327.395 nm)	0.0007 (ppm)	40.82	0.0007 (ppm)	56.7533
11/1/2017 03:29:53	Continuing Calibration Blank	Fe (234.350 nm)	0.0196 (ppm)	23.90	0.0196 (ppm)	230.3653
11/1/2017 03:29:53	Continuing Calibration Blank	K (766.491 nm)	0.0403 (ppm)	10.60	0.0403 (ppm)	112.7014
11/1/2017 03:29:53	Continuing Calibration Blank	Mg (279.078 nm)	0.0519 (ppm)	21.99	0.0519 (ppm)	99.5531
11/1/2017 03:29:53	Continuing Calibration Blank	Mn (257.610 nm)	0.0010 (ppm)	4.96	0.0010 (ppm)	302.3145
11/1/2017 03:29:53	Continuing Calibration Blank	Mo (202.032 nm)	0.0032 (ppm)	17.70	0.0032 (ppm)	39.7456
11/1/2017 03:29:53	Continuing Calibration Blank	Na (588.995 nm)	-0.0277 u (ppm)	6.65	-0.0277 (ppm)	-6719.8994
11/1/2017 03:29:53	Continuing Calibration Blank	Ni (230.299 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-17.3022
11/1/2017 03:29:53	Continuing Calibration Blank	Pb (220.353 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	6.8570
11/1/2017 03:29:53	Continuing Calibration Blank	Sb (217.582 nm)	0.0038 (ppm)	76.13	0.0038 (ppm)	5.9893

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 03:29:53	Continuing Calibration Blank	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-0.3330
11/1/2017 03:29:53	Continuing Calibration Blank	Sn (189.925 nm)	0.0034 (ppm)	39.53	0.0034 (ppm)	4.0009
11/1/2017 03:29:53	Continuing Calibration Blank	Sr (216.596 nm)	0.0012 (ppm)	39.85	0.0012 (ppm)	16.0141
11/1/2017 03:29:53	Continuing Calibration Blank	Ti (336.122 nm)	0.0019 (ppm)	16.34	0.0019 (ppm)	-80.9203
11/1/2017 03:29:53	Continuing Calibration Blank	Tl (351.923 nm)	0.0037 (ppm)	38.98	0.0037 (ppm)	17.4411
11/1/2017 03:29:53	Continuing Calibration Blank	V (292.401 nm)	0.0015 (ppm)	31.09	0.0015 (ppm)	163.3433
11/1/2017 03:29:53	Continuing Calibration Blank	Y (360.074 nm)	0.91 (Ratio)	0.79	0.91 (Ratio)	777767.98
11/1/2017 03:29:53	Continuing Calibration Blank	Y_R (360.074 nm)	0.91 (Ratio)	0.79	0.91 (Ratio)	778049.01
11/1/2017 03:29:53	Continuing Calibration Blank	Zn (213.857 nm)	0.0005 (ppm)	24.68	0.0005 (ppm)	-12.3614

Ag (328.068 nm)
Intensity = 71449.4313 * Concentration - 103.5199
Correlation coefficient: 0.99999

As (188.980 nm)
Intensity = 893.9141 * Concentration - 1.4556
Correlation coefficient: 0.99999

B (249.772 nm)
Intensity = 27687.2353 * Concentration + 33.7366
Correlation coefficient: 0.99999

Ba (230.424 nm)
Intensity = 33619.0553 * Concentration + 1.8955
Correlation coefficient: 0.99995

Be (313.107 nm)
Intensity = 1477195.0274 * Concentration - 523.7467
Correlation coefficient: 1.00000

Cd (214.439 nm)
Intensity = 21649.3728 * Concentration + 13.5722
Correlation coefficient: 0.99999

Co (230.786 nm)
Intensity = 9872.7714 * Concentration - 3.5604
Correlation coefficient: 0.99999

Cr (267.716 nm)
Intensity = 49514.1968 * Concentration - 1.0703
Correlation coefficient: 1.00000

Cu (327.395 nm)
Intensity = 62085.1746 * Concentration + 12.9636
Correlation coefficient: 0.99999

K (766.491 nm)
Intensity = 3017.2847 * Concentration - 8.8328
Correlation coefficient: 0.99996

Mn (257.610 nm)
Intensity = 313439.0056 * Concentration + 4.3915
Correlation coefficient: 0.99999

Mo (202.032 nm)
Intensity = 10193.6244 * Concentration + 7.0792
Correlation coefficient: 1.00000

Na (588.995 nm)
Intensity = 45474.7279 * Concentration - 5460.2635
Correlation coefficient: 1.00000

Ni (230.299 nm)
Intensity = 6736.6611 * Concentration - 20.6132
Correlation coefficient: 0.99998

Pb (220.353 nm)
Intensity = 2136.5608 * Concentration + 5.0502
Correlation coefficient: 0.99999

Sb (217.582 nm)
Intensity = 1367.5513 * Concentration + 0.8064
Correlation coefficient: 1.00000

Se (196.026 nm)
Intensity = 856.4191 * Concentration + 0.7762
Correlation coefficient: 0.99999

Sn (189.925 nm)
Intensity = 1210.9429 * Concentration - 0.0732
Correlation coefficient: 0.99999

Ti (336.122 nm)
Intensity = 209234.6557 * Concentration - 481.7161
Correlation coefficient: 1.00000

Tl (351.923 nm)
Intensity = 2746.7145 * Concentration + 7.3004
Correlation coefficient: 0.99997

V (292.401 nm)
Intensity = 35346.7404 * Concentration + 108.9825
Correlation coefficient: 1.00000

Zn (213.857 nm)
Intensity = 27975.5895 * Concentration - 26.6762
Correlation coefficient: 1.00000

Al (394.401 nm)
Intensity = 12797.6981 * Concentration + 125.8898
Correlation coefficient: 0.99989

Ca (227.547 nm)
Intensity = 56.2954 * Concentration + 4.4141
Correlation coefficient: 0.99995

Fe (234.350 nm)
Intensity = 11169.2474 * Concentration + 11.8400
Correlation coefficient: 0.99998

Mg (279.078 nm)
Intensity = 1929.6839 * Concentration - 0.6701
Correlation coefficient: 1.00000

Sr (216.596 nm)
Intensity = 14198.6624 * Concentration - 0.6593
Correlation coefficient: 0.99999

Preparation Information Benchsheet

Prep Run#: 301737
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/26/17 05:45 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711141-01	MB		50mL	6010C/Ag T, Ag T DOD, Al T, Al T DOD, As T DOD, B T, Ba T, Ba T DOD, Be T, Be T DOD, Ca T, Ca T DOD, Cd T, Cd T DOD, Co T, Co T DOD, Cr T, Cr T DOD, Cu T, Cu T DOD, Fe T, Fe T DOD, K T, K T DOD, Mg T, Mg T DOD, Mn T, Mn T DOD, Mo T, Na T, Na T DOD, Ni T, Ni T DOD, Pb T, Pb T DOD, Sb T DOD, Se T, Se T DOD, Sn T, Sr T, Tl T DOD, V T, V T DOD, Zn T, Zn T DOD	<2			50.00mL	Colorless-Clear		HB: 7 Well: I4 Temp: 94.0C Corr. Factor: 0.0C Corr. Temp: 94.0C
2	RQ1711141-02	LCS		50mL	6010C/Ag T, Ag T DOD, Al T, Al T DOD, As T DOD, B T, Ba T, Ba T DOD, Be T, Be T DOD, Ca T, Ca T DOD, Cd T, Cd T DOD, Co T, Co T DOD, Cr T, Cr T DOD, Cu T, Cu T DOD, Fe T, Fe T DOD, K T, K T DOD, Mg T, Mg T DOD, Mn T, Mn T DOD, Mo T, Na T, Na T DOD, Ni T, Ni T DOD, Pb T, Pb T DOD, Sb T DOD, Se T, Se T DOD, Sn T, Sr T, Tl T DOD, V T, V T DOD, Zn T, Zn T DOD	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/182726; 0.5000 mL/182727; 0.2500 mL/184175	
3	R1710018-001	PCERI-MW25S	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		Tier IV
4	R1710018-002	DUP-101717-1	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 301737 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/26/17 05:45 PM

5	R1710018-003	PCERI-MW25I	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Purple-Cloudy/Purple-Cloudy		
6	R1710018-004	PCERI-IMW-05	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		
7	R1710018-005	PCERI-IMW-06	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		
8	RQ1711141-03	R1710018-005 MS	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182726; 0.5000 mL/182727; 0.2500 mL/184175	
9	RQ1711141-04	R1710018-005 DMS	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/182727; 0.1000 mL/180703; 0.2500 mL/184175; 0.5000 mL/182726	
10	R1710018-006	PCERI-IMW-03	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Pink-Clear/Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 301737 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/26/17 05:45 PM

11	R1710018-007	PCERI-IMW-04	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Purple-Cloudy/Colorless-Clear		
12	R1710018-008	PCERI-MW19S	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Pink-Clear/Colorless-Clear		
13	R1710018-009	PCERI-MW19I	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Purple-Cloudy/Purple-Cloudy		
14	R1710018-010	PCERI-IMW-01	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Pink-Clear/Colorless-Clear		
15	R1710018-011	PCERI-IMW-02	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		
16	R1710069-003	1710191315B ST-7-453	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 301737 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/26/17 05:45 PM

17	R1710069-010	1710191400B ST-7-544	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R1710091-001	Outfall 01-1017	.01	50mL	6010C/Al T, Fe T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
19	R1710091-002	Outfall 03-1017	.04	50mL	6010C/Al T, Fe T, Zn T	<2			50.00mL	Colorless-Clear		
20	R1710091-003	Outfall 04-1017	.06	50mL	6010C/Al T, Fe T, Zn T	<2			50.00mL	Colorless-Clear		
21	R1710191-001	SE-0115-UT	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
22	R1710191-002	SE-0115-SB	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Thermometer	293 (12952)				

Preparation Steps

Step: Digestion
Started: 10/26/17 17:45
Finished: 10/27/17 08:42
By: KMCLAEN
Comments

Comments: DOD check M72900646 10126117

Reviewed By: Nicol Date: 10/30/17

Chain of Custody

Relinquished By: Kung McJam Date: 10127117

Received By: RA01 Date: 10127117

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 301957
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqlCP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711245-01	MB		50mL	6010C/As T, Ba T, Ca D DOD, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg D DOD, Mg T, Mn T, Na T, Ni T, Pb D DOD, Pb T, Pb T DOD, Se T, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: D1 Temp: 92.0C Corr. Factor: 0.0C Corr. Temp: 92.0C
2	RQ1711245-02	LCS		50mL	6010C/As T, Ba T, Ca D DOD, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg D DOD, Mg T, Mn T, Na T, Ni T, Pb D DOD, Pb T, Pb T DOD, Se T, Zn T	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/182727; 0.2500 mL/184175; 0.5000 mL/182726; 0.0500 mL/180701	
3	R1710031-019	EB1-1017	.04	50mL	6010C/As T, Ba T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T, Zn T	<2			50.00mL	Colorless-Clear		
4	R1710033-001	PCM-01-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
5	R1710033-002	PCM-02-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
6	R1710033-003	PCM-05-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
7	R1710033-004	PCM-07R-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
8	R1710033-005	PCM-10-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
9	RQ1711245-07	R1710033-005 MS	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/182727; 0.2500 mL/184175	
10	RQ1711245-08	R1710033-005 DMS	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/182727; 0.5000 mL/182726; 0.1000 mL/180703; 0.2500 mL/184175	
11	K1710862-001	QUSW2017A01	.02	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD, Pb T DOD	<2			50.00mL	Colorless-Clear		Tier IV
12	K1710862-002	QUSW2017A02	.02	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD, Pb T DOD	<2			50.00mL	Colorless-Clear		
13	K1710862-003	QUSW2017B01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
14	K1710862-004	QUSW2017C01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
15	K1710862-005	QUSW2017D01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
16	K1710862-006	QUSW2617A01	.02	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD, Pb T DOD	<2			50.00mL	Colorless-Clear		
17	RQ1711245-03	K1710862-006 MS	.02	50mL	6010C/Pb T DOD	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/182727; 0.2500 mL/184175; 0.0500 mL/180701; 0.5000 mL/182726	
18	RQ1711245-04	K1710862-006 DMS	.02	50mL	6010C/Pb T DOD	<2			50.00mL	Colorless-Clear	0.2500 mL/184175; 0.0500 mL/180701; 0.5000 mL/182727; 0.1000 mL/180703; 0.5000 mL/182726	

Preparation Information Benchsheet

Prep Run#: 301957 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/30/17 03:33 PM

19	RQ1711245-05	K1710862-006 MS	.04	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182727; 0.2500 mL/184175; 0.5000 mL/182726	
20	RQ1711245-06	K1710862-006 DMS	.04	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.5000 mL/182727; 0.1000 mL/180703; 0.0500 mL/180701; 0.2500 mL/184175	
21	K1710862-007	QUSW2617A04	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
22	K1710862-008	QUSW2617B01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
23	K1710862-009	QUSW2617C01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
24	K1710862-010	QUSW2617D01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
25	K1710862-014	QUSD2617A04	.02	50mL	6010C/Pb T DOD	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Thermometer	294 (12954)				

Preparation Steps

Step: Digestion
Started: 10/30/17 15:33
Finished: 10/31/17 14:47
By: KMCLAEN
Comments

Comments: DOD check M72900046 10/31/17

Reviewed By: Neal Date: 10/31/17 Spike Witness: NMANSEN Date:

Preparation Information Benchsheet

Prep Run#: 301957
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

Chain of Custody

Relinquished By: Kelly McJaen Date: 10/31/17

Received By: RA01 Date: 10/31/17

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 301960 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/30/17 03:55 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711248-01	MB		50mL	6010C/Ag D, Ag T, Al D, Al T, As D, As T, B T, Ba D, Ba T, Be D, Be T, Ca D, Ca T, Cd D, Cd T, Co D, Co T, Cr D, Cr T, Cu D, Cu T, Fe D, Fe T, K D, K T, Mg D, Mg T, Mn D, Mn T, Na D, Na T, Ni D, Ni T, Pb D, Pb T, Sb D, Sb T, Se D, Se T, Tl D, Tl T, V D, V T, Zn D, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: D1 Temp: 92.0C Corr. Factor: 0.0C Corr. Temp: 92.0C Plunge Filtered
2	RQ1711248-02	LCS		50mL	6010C/Ag D, Ag T, Al D, Al T, As D, As T, B T, Ba D, Ba T, Be D, Be T, Ca D, Ca T, Cd D, Cd T, Co D, Co T, Cr D, Cr T, Cu D, Cu T, Fe D, Fe T, K D, K T, Mg D, Mg T, Mn D, Mn T, Na D, Na T, Ni D, Ni T, Pb D, Pb T, Sb D, Sb T, Se D, Se T, Tl D, Tl T, V D, V T, Zn D, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/182726; 0.1000 mL/180703; 0.5000 mL/182727; 0.2500 mL/184175	Plunge Filtered
3	R1710054-001	SW-1	.08	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		~~For PP~~ KM 10/31/17
4	RQ1711248-03	R1710054-001 MS	.08	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/182727; 0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/182726; 0.2500 mL/184175	
5	RQ1711248-04	R1710054-001 DMS	.08	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/182726; 0.1000 mL/180703; 0.2500 mL/184175; 0.5000 mL/182727	
6	R1710054-002	SW-2	.01	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R1710054-004	MW-2	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R1710054-006	MW-3	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 301960
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:55 PM

9	R1710054-008	MW-4 10	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1710054-010	MW-5	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
11	R1710054-012	MW-6 10	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R1710054-013	DUPE-X	.08	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R1710113-001	MW-7 10	.02	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
14	R1710113-002	MW-3	.02	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Yellow-Cloudy/Yellow-Clear		
15	R1710113-003	MW-3 Diss	.01	50mL	6010C/Ag D, Al D, As D, Ba D, Be D, Ca D, Cd D, Co D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D, Sb D, Se D, Tl D, V D, Zn D	<2			50.00mL	Yellow-Cloudy/Yellow-Clear		Plunge Filtered
16	R1710113-004	MW-D	.02	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Yellow-Cloudy/Yellow-Cloudy		
17	R1710113-005	MW-D Diss	.01	50mL	6010C/Ag D, Al D, As D, Ba D, Be D, Ca D, Cd D, Co D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D, Sb D, Se D, Tl D, V D, Zn D	<2			50.00mL	Yellow-Clear/Yellow-Clear		
18	R1710113-006	MW-8	.02	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Brown-Cloudy/Brown-Cloudy		Plunge Filtered

Preparation Information Benchsheet

Prep Run#: 301960 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/30/17 03:55 PM

19	R1710113-007	MW-8 Diss	.01	50mL	6010C/Ag D, Al D, As D, Ba D, Be D, Ca D, Cd D, Co D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D, Sb D, Se D, Tl D, V D, Zn D	<2			50.00mL	Brown-Cloudy/Brown-Cloudy		Plunge Filtered
20	R1710200-001	Primary Leachate Composite	.11	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R1710200-003	Secondary Leachate	.11	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Plunger Filter	184141 (184141)	Thermometer	294 (12954)		

Preparation Steps

Step: Digestion
Started: 10/30/17 15:55
Finished: 10/31/17 15:28
By: KMCLAEN
Comments

Comments: _____

Reviewed By: Nicol [signature] Date: 10/31/17 Spike Witness: NMANSEN Date: _____

Chain of Custody

Relinquished By: Kelly McJaen Date: 10/31/17
Received By: RAOI Date: 10/31/17

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 301955
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711235-01	MB		50mL	6010C/Ag T, Ba T, Be T, Cd D, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		HB: 7 Well: DI Temp: 92.5C Corr. Factor: 0.0C Corr. Temp: 92.5C
2	RQ1711235-02	LCS		50mL	6010C/Ag T, Ba T, Be T, Cd D, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear	0.2500 mL/184175; 0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182726; 0.5000 mL/182727	
3	R1710073-001	GZA-3C	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
4	R1710073-002	GZA-3C Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
5	R1710073-003	GZA-3B	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
6	R1710073-004	GZA-3B Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
7	R1710073-005	GZA-3A	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
8	R1710073-006	GZA-3A Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
9	R1710073-007	GZA-6B	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1710073-008	GZA-6B Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
11	R1710073-009	GZA-6A	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
12	R1710073-010	GZA-6A Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
13	R1710073-013	RFW-2D	.19	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
14	RQ1711235-03	R1710073-013 MS	.19	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.1000 mL/180703; 0.5000 mL/182727; 0.0500 mL/180701; 0.2500 mL/184175	
15	RQ1711235-04	R1710073-013 DMS	.19	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.2500 mL/184175; 0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182727	
16	R1710073-014	RFW-2D Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
17	RQ1711235-05	R1710073-014 MS	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear	0.5000 mL/182727; 0.0500 mL/180701; 0.2500 mL/184175; 0.1000 mL/180703; 0.5000 mL/182726	

Preparation Information Benchsheet

Prep Run#: 301955 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/30/17 03:33 PM

18	RQ1711235-06	R1710073-014 DMS	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/182727; 0.0500 mL/180701; 0.5000 mL/182726; 0.2500 mL/184175	
19	R1710073-015	RFW-2S	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
20	R1710073-016	RFW-2S Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
21	R1710073-017	RFW-2B	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
22	R1710073-018	RFW-2B Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
23	R1710073-019	RFW-4S	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
24	R1710073-020	RFW-4S Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
25	R1710073-021	RFW-4D	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
26	R1710073-022	RFW-4D Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Thermometer	293 (12952)				

Preparation Steps

Step: Digestion
Started: 10/30/17 15:33
Finished: 10/31/17 14:35
By: KMCLAEN
Comments

Comments: _____

Preparation Information Benchsheet

Prep Run#: 301955
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

Reviewed By: Nicole [signature] Date: 10/31/17 Spike Witness: NMANSEN Date:

Chain of Custody

Relinquished By: Kelly Mojaen Date: 10131117

Received By: RAOI Date: 10131117

Extracts Examined
Yes No

Frequency:

Pipettes: 3 trials for both bias and precision
DOD Projects - Daily before use at each volume of use, or if more than 3 volumes of use, a high, medium, and low.
Non-DOD: Monthly at high, medium, and low.

Repeaters, Dispensers, and Repipettors: 3 trials for both bias and precision
If used for dilutions - Daily before use and each time the volume is changed.
If not used for dilutions - monthly

Calculations:

%Recovery = Mean/Nominal Volume*100
%RSD = Stdev/Volume*100

Limits:

% Recovery: 98-102
%RSD: ≤1 (Pipets); ≤3 (Repeaters, Dispensers, and Repipettors)

Date	Init.	Pipettor ID	Volume (mL)	Trial #1 (g)	Trial #2 (g)	Trial #3 (g)	Mean (g)	Bias %Recovery	Pass/ Fail	Precision %RSD	Pass/ Fail	Recal? Y/N	Balance ID	Comments/ Corrective Action
10/31/17	NM	M35	0.5000	0.4968	0.4974	0.4966	0.4969	99.39%	P	0.083	P	N	R-10	DOD Check
↓	↓	↓	1.0000	0.9993	0.9986	1.0001	0.9993	99.93%	P	0.575	P	N	↓	↓
		M25	0.0100	0.0099	0.0099	0.0099	0.0099	99%	P	0	P	N		
↓	↓	↓	0.1000	0.0994	0.0998	0.0996	0.0996	99.6%	P	0.2	P	N	↓	

Frequency:

Pipettes: 3 trials for both bias and precision
DOD Projects - Daily before use at each volume of use, or if more than 3 volumes of use, a high, medium, and low.
Non-DOD: Monthly at high, medium, and low.

Repeaters, Dispensers, and Repipettors: 3 trials for both bias and precision
If used for dilutions - Daily before use and each time the volume is changed.
If not used for dilutions - monthly

Calculations:
%Recovery = Mean/Nominal Volume*100
%RSD = Stdev/Volume*100

Limits:
% Recovery: 98-102
%RSD: ≤1 (Pipets); ≤3 (Repeaters, Dispensers, and Repipettors)

Date	Init.	Pipettor ID	Volume (mL)	Trial #1 (g)	Trial #2 (g)	Trial #3 (g)	Mean (g)	Bias %Recovery	Pass/ Fail	Precision %RSD	Pass/ Fail	Recal? Y/N	Balance ID	Comments/ Corrective Action
10/25/17	KSM	M26	0.2500	0.2501	0.2489	0.2495	0.2495	99.8	P	0.24	P	N	R-10	DOD check
			0.5000	0.4999	0.4989	0.4996	0.4994	99.89	P	0.102	P	N		
			0.7500	0.7489	0.7491	0.7493	0.7491	99.88	P	0.026	P	N		
			1.0000	0.9991	0.9989	0.9999	0.9993	99.93	P	0.0529	P	N		
		M31	0.0500	0.0500	0.0499	0.0498	0.0499	99.8	P	0.2	P	N		
			0.0950	0.0951	0.0952	0.0950	0.0951	100.13	P	0.13	P	N		
10/26/17	KSM	M31	0.0500	0.0501	0.0500	0.0498	0.0499	99.93	P	0.305	P	N	R-10	DOD check
			0.1000	0.1001	0.1002	0.0999	0.1000	100	P	0.153	P	N		
		M27	0.2500	0.2489	0.2491	0.2493	0.2494	99.64	P	0.08	P	N		
		M23	0.5000	0.4989	0.4999	0.5001	0.4996	99.92	P	0.12	P	N		
10/30/17	NM	M35	0.5000	0.4947	0.4945	0.4948	0.4946	98.93	P	0.0305	P	N	R-19	DOD check → Balance not level. Relevelled & Recalibrated
			1.0000	0.9905	0.9964	—								
			1.0000	0.9992	0.9974	1.0011	0.9992	99.92	P	0.185	P	N	R-19	DOD check
			0.5000	0.4960	0.4957	0.4961	0.4959	99.186	P	0.0416	P	N		
		M25	0.0100	0.0101	0.0100	0.0101	0.0100	100.6	P	0.577	P	N		
			0.1000	0.0990	0.0995	0.0994	0.0993	99.3	P	0.269	P	N		
10/30/17	KSM	M23	0.5000	0.4974	0.4973	0.4980	0.4975	99.513	P	0.0757	P	N	R-19	DOD check
													NM 10/31/17	

✓CK 10/30/17

OPTIMA 3/4/6 INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix
Y	M70800009L	10000	2.0	2000	10.0	5 % HCl 2%HNO3
CS	M70800009K	10000	2.0		10.0	

Analyst/ Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
NM 8/7/17	A	M76000011L	M7080014000	11/26/17	M34
NM 8/11/17	B	M76000011L	M76000011P	11/26/17	M34
NM 8/15/17	C	M76000011L	M76000011P	11/26/17	M34
NM 8/23/17	D	M76000011L	M76000011P	11/26/17	M34
NM 8/29/17	E	M76000011L	M76000011P	11/26/17	M34
NM 9/6/17	F	M76000011L	M76000011P	11/26/17	M34
NM 9/11/17	G	M76000011L	M76000002I	11/26/17	M34
NM 9/15/17	H	M76000011L	M76000002I	11/26/17	M34
NM 9/25/17	I	M76000011L	M76000002I	11/26/17	M34
NM 9/29/17	J	M76000002W	M76000002I	11/26/17	M34
NM 10/10/17	K	M76000002W	M76000002I	11/26/17	M34
NM 10/16/17	L	M76000002W	M76000002I	11/26/17	M34
NM 10/20/17	M	M76000002W	M76000003D	11/26/17	M35
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	V				

10/20/2017

OPTIMA 3/5/6 ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M708001 4M	Multi	25	500	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	M708001 3Q	Multi	5		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 8/8/17	A	M760000 1L 2%	M708002400 5%	2/8/18	Volumetric
NM 8/8/17	B	M760000 1L 10%	M708001400 5%	2/8/18	Volumetric
NM 8/31/17	C	M760000 1L 2%	M760000 1P 5%	2/28/18	Volumetric
NM 8/31/17	D	M760000 1L 10%	M760000 1P 5%	NM 8/31/17 2/28/18	Volumetric
NM 9/15/17	E	M760000 1L 2%	M760000 2I 5%	3/15/18	Volumetric
NM 9/15/17	F	M760000 1L 10%	M760000 2I 5%	3/15/18	Volumetric
NM 10/13/17	G	M760000 2W 2%	M760000 2I 5%	4/13/18	Volumetric
NM 10/13/17	H	M760000 2W 10%	M760000 2I 5%	4/13/18	Volumetric
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

OPTIMA 3/5/6 ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M760000025	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 10/13/17	A	M760000 02W 10%	M760000 07I 5%	4/13/18	Volumetric
	B				
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

√ CM 10/30/17

OPTIMA 3/4/5/6 MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot # NM 8/22/17	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M708000135D	5000	0.200	1000	1.00
	MG	M708000125EE	5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	M708000133Y	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	M708000146	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	M7160000 1I	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	M708000122	1000	0.200		0.200
	MO	M708000 10V	1000	0.025		0.0250
	SN	M7160000 1H	1000	0.500		0.500
	TI	M708000 13R	1000	0.050		0.0500
	SB	M708000 11BB	1000	0.060		0.0600
	SR	M708000 14G	1000	0.100		0.100
	P	-	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 8/22/17	A	M7160000 1L 10%	M7160000 1P 5%	2/17/18	M25/M31
NM 9/18/17	B	M7160000 1L 10%	M7160000 1P 5%	2/17/18	M25/M31
NM 9/18/17	C	M7160000 1L 2%	M7160000 1P 5%	2/17/18	M25/M31
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 3/4/5/6 HLCCV3

(Standard is prepared biweekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Elements	CA	M708001 3D	10000	2.00	100	200
	CU	M760000 1A	1000	0.40		4.00
	FE	M760000 1C	10000	0.40		40.0
	K	M708001 4AA	10000	1.00		100
	TL	M760000 1N	1000	0.30		3.00

Analyst / Date	Letter ID	Nitric Acid Lot #/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 8/9/17	A	M760000 1L 2%	M760000 1P 6%	8/23/17	M34
NM 8/9/17	B	M760000 1L 10%	M760000 1P 5%	8/23/17	M34
NM 8/24/17	C	M760000 1L 2%	M760000 1P 5%	9/7/17	M34
NM 8/24/17	D	M760000 1L 10%	M760000 1P 5%	9/7/17	M34
NM 9/8/17	E	M760000 1L 2%	M760000 1P 5%	9/22/17	M34
NM 9/8/17	F	M760000 1L 10%	M760000 1P 5%	9/22/17	M34
NM 9/25/17	G	M760000 1L 2%	M760000 2I 5%	10/9/17	M34
NM 9/25/17	H	M760000 1L 10%	M760000 2I 5%	10/9/17	M34
NM 10/10/17	I	M760000 2W 2%	M760000 2I 5%	10/24/17	M34
NM 10/10/17	J	M760000 2W 10%	M760000 2I 5%	10/24/17	M34
CK 10/25/17	K	M760000 2W 2%	M760000 3D 5%	11/8/17	M35
CK 10/25/17	L	M760000 2W 10%	M760000 3D 5%	~~11/8/17~~ 11/8/17	M35
	M				
	N				
	O				
	P				
	Q				
	R				
	S				

10/25/17

OPTIMA 3/4/6 HLCCV2 (Standard is prepared every 2 weeks or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M708012M	100	2.00	100	2.00
	CR		100			Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	M7600001R	2000	2.00		Below
	BA		2000			40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	M7600001I	100	4.00		4.00
	CD, SE		50			2.00
	PB		50			Below
Single Metals	B	M708D012Z	1000	1.00		10.0
	MO	M708D010V	1000	1.00		10.0
	TI	M708D013R	1000	1.00		10.0
	SR	M708D014G	1000	1.00		10.0
	CA	M708D013D	10000	2.50		250
	MG	M708D013F	10000	5.00		500
	NA	M708D014Z	10000	1.50		150
	CR	M708D012P	1000	0.800		10.0
	FE	M7600001C	10000	0.300		50
	AL	M708D011GG	10000	4.60		500
	MN	M708D011R	1000	0.700		10.00
	PB	M708D011S	1000	0.800		10.0
	K	M708D014AA	10000	1.50		150

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
CK 10/25/17	A	M7600002W 2%	M7600003D 5%	11/8/17	M35
CK 10/25/17	B	M7600002W 10%	M7600003D 5%	11/8/17	M35
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

OPTIMA 3/4/5/6 ICV/CCV (Standard is prepared daily)
(ICV FOR ILM5.3 IS A ½ DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7600001S	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	M7600001T	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	M7600001U	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	M7600001F	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	M7600001K	1000	1.00		5.00
	SN	M7600001E	1000	1.00		5.00
	B	M708001IFF	1000	0.500		2.50
	MO	M708001IDD	1000	0.500		2.50
	TI	M708001IEE	1000	0.500		2.50
	SR	M7080014X	1000	0.500		2.50
	P	—	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration 2%	Hydrochloric Acid Lot # / Concentration	Pipet ID
NM 10/5/17	A	M7600002W ~~10%~~	M7600002I 5%	M34
NM 10/6/17	B	M7600002W 10%	M7600002I 5%	M34
NM 10/9/17	C	M7600002W 2%	M7600002I 5%	M34
NM 10/9/17	D	M7600002W 10%	M7600002I 5%	M34
NM 10/10/17	E	M7600002W 2%	M7600002I 5%	M34
NM 10/11/17	F	M7600002W 2%	M7600002I 5%	M34
NM 10/11/17	G	M7600002W 10%	M7600002I 5%	M34
NM 10/12/17	H	M7600002W 2%	M7600002I 5%	M34
NM 10/12/17	I	M7600002W 10%	M7600002I 5%	M35
NM 10/13/17	J	M7600002W 2%	M7600002I 5%	M34
NM 10/13/17	K	M7600002W 10%	M7600002I 5%	M35
NM 10/16/17	L	M7600002W 10%	M7600002I 5%	M34
NM 10/16/17	M	M7600002W 2%	M7600002I 5%	M34
NM 10/17/17	N	M7600002W 10%	M7600002I 5%	M34
NM 10/18/17	O	M7600002W 10%	M7600002I 5%	M35
NM 10/19/17	P	M7600002W 2%	M7600002I 5%	M35
NM 10/19/17	Q	M760002W 10%	M7600002I 5%	M35
NM 10/20/17	R	M7600002W 2%	M760003D 5% (NM 10/20/17)	M35
NM 10/20/17	S	M7600002W 10%	M7600003D 5%	M35
CK 10/24/17	T	M7600002W 2%	M7600003D 5%	M35
CK 10/25/17	U	M7600002W 2%	M7600003D 5%	M35
CK 10/25/17	V	M7600002W 10%	M7600003D 5%	M35
CK 10/26/17	W	M7600002W 2%	M7600003D 5%	M35
CK 10/27/17	X	M7600002W 2%	M7600003D 5%	M35
NM 10/30/17	Y	M7600002W 10%	M7600003D 5%	M35
NM 10/31/17	Z	M7600002W 10%	M7600003D 5%	M35
	AA			
	BB			

OPTIMA 3/4/5/6 CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared weekly or as necessary)

(CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)

(CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M708D012M	100	2.00	200	1.00
	CR		100			1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	M760DDD1B	2000	2.00		20.0
	BA		2000			20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
Cal Std 4	AS	M760D001I	100	4.00		2.00
	CD		50			1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	M708D014Y	10000	1.00		50.0
	MG	M760D002H	10000	1.00		50.0
	K	M708D014AA	10000	1.00		50.0
	NA	M708D014Z	10000	1.00		50.0
	SB	M760D001G	1000	2.00		10.0
	SN	M760D002T	1000	2.00		10.0
	B	M708D012Z	1000	1.00		5.00
	MO	M708D01DV	1000	1.00		5.00
	TI	M708D013R	1000	1.00		5.00
	SR	M708D014G	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
CK 10/26/17	A	M760D002W 2%	M760D003D 5%	11/2/17	M35
CK 10/26/17	B	M760D002W 10%	M760D003D 5%	11/2/17	M35
CK 10/30/17	C	M760D002W 2%	M760D003D 5%	11/6/17	M35
CK 10/30/17	D	M760D002W 10%	M760D003D 5%	11/6/17	M35
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 3,4,5,6 CALIBRATION STANDARD #2
(Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	M760D001J	1000	0.100	1000	0.100
	AS	M708D011X	1000	0.010		0.010
	B	M708D012Z	1000	0.200		0.200
	BE	M703D012V (1/10)	100	0.030		0.003
	CA	M708D013D	10000	0.100		1.00
	CD	M703D01DN (1/10)	100	0.050		0.005
	CU	M760D001A	1000	0.020		0.020
	K	M708D014AA	10000	0.200		2.00
	MG	M708D013F	10000	0.100		1.00
	NA	M708D014Z	10000	0.100		1.00
	PB	M708D011S	1000	0.050		0.050
	SB	M760D001G	1000	0.060		0.060
	SE	M708D014F	1000	0.010		0.010
	SN	M760D002T	1000	0.500		0.500

Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
CK 10/25/17	A	M760D002W 2%	M760D003D 5%	11/1/17	M35/M25
CK 10/25/17	B	M760D002W 10%	M760D003D 5%	11/1/17	M35/M25
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

OPTIMA 3,4,5,6 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std.1	AL	M762D001C	20.0	1.00	1000	0.020
Int.	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
Cal Std. 1	CA	M708DD12EE	5000	0.100		0.500
	K		5000			BELOW
	MG		5000			0.500
	NA		5000			0.500
Single Element	BA	M708D014BB	1000	0.020		0.020
	CU	M76DDD01A	1000	0.010		0.010
	K	M708D014AA	10000	0.150		2.00
	MN	M708 0011R	1000	0.010		0.010
	MO	M708D01DV	1000	0.025		0.025
	SB	M76DDD01G	1000	0.010		0.010
	TL	M76DDD01N	1000	0.010		0.010
	ZN	M708 0009Y	1000	0.010		0.010
	P	—	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
CK 10/24/17	A	M76DDD2LJ 2%	M76DDD2E3D 5%	10/31/17	M335/M025
CK 10/24/17	B	M76DDD2LJ 10%	M76DDD2E3D 5%	10/31/17	M335/M025
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

√ 10/10/2017

Sample Dilutions

Analyst: NM

Date 10/31/17

Instrument: ICP6

Analysis 6010C

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	HNO3/HCL	3	3	1/2												
1/3	HNO3/HCL	3	6	1/3												
1/4	HNO3/HCL	2	6	1/4												
1/5	HNO3/HCL	2	8	1/5												
1/10	HNO3/HCL	1	9	1/10												
1/20	HNO3/HCL	3	3	1/2	1	9	1/20									
1/30	HNO3/HCL	3	6	1/3	1	9	1/30									
1/40	HNO3/HCL	1	3	1/4	1	9	1/40									
1/50	HNO3/HCL	1	4	1/5	1	9	1/50									
1/100	HNO3/HCL	1	9	1/10	1	9	1/100									
1/200	HNO3/HCL	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	HNO3/HCL	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	HNO3/HCL	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	HNO3/HCL	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	HNO3/HCL	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	HNO3/HCL	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	HNO3/HCL	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	HNO3/HCL	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	HNO3/HCL	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	HNO3/HCL	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	HNO3/HCL	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	HNO3/HCL	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568339 **Method/Testcode:** 6010C/Pb T DOD

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711141-01	Lead, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:02:28	N	II
RQ1711141-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:02:28	N	II
RQ1711141-01	Thallium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 19:02:28	N	II
RQ1711141-02	Lead, Total	LCS		Water	0.51 ppm	50 mL	514 µg/L	1	4	10	103		10/31/17 19:05:47	N	II
RQ1711141-02	Selenium, Total	LCS		Water	1.05 ppm	50 mL	1050 µg/L	1	4	10	104		10/31/17 19:05:47	N	II
RQ1711141-02	Thallium, Total	LCS		Water	1.87 ppm	50 mL	1870 µg/L	1	6	20	94		10/31/17 19:05:47	N	II
R1710018-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:09:07	N	IV
R1710018-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:09:07	N	IV
R1710018-001	Thallium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 19:09:07	N	IV
R1710018-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:12:27	N	IV
R1710018-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:12:27	N	IV
R1710018-002	Thallium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 19:12:27	N	IV
R1710018-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	100	400	1000			10/31/17 19:15:46	N	IV
R1710018-003	Thallium, Total	N/A		Water	0.00 ppm	50 mL	2000 µg/L U	100	600	2000			10/31/17 19:15:46	N	IV
R1710018-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:19:06	N	IV
R1710018-004	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:19:06	N	IV
R1710018-004	Thallium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 19:19:06	N	IV
R1710018-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:22:25	Y	IV
R1710018-005	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:22:25	Y	IV
R1710018-005	Thallium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 19:22:25	Y	IV
RQ1711141-03	Lead, Total	MS	R1710018-005	Water	0.53 ppm	50 mL	527 µg/L	1	4	10	105		10/31/17 19:25:43	N	IV
RQ1711141-03	Selenium, Total	MS	R1710018-005	Water	1.12 ppm	50 mL	1120 µg/L	1	4	10	111		10/31/17 19:25:43	N	IV
RQ1711141-03	Thallium, Total	MS	R1710018-005	Water	2.04 ppm	50 mL	2040 µg/L	1	6	20	102		10/31/17 19:25:43	N	IV
RQ1711141-04	Lead, Total	DMS	R1710018-005	Water	0.52 ppm	50 mL	516 µg/L	1	4	10	103	2	10/31/17 19:29:03	N	IV
RQ1711141-04	Selenium, Total	DMS	R1710018-005	Water	1.11 ppm	50 mL	1110 µg/L	1	4	10	110	1	10/31/17 19:29:03	N	IV
RQ1711141-04	Thallium, Total	DMS	R1710018-005	Water	2.00 ppm	50 mL	2000 µg/L	1	6	20	100	2	10/31/17 19:29:03	N	IV
R1710018-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:45:38	N	IV
R1710018-006	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:45:38	N	IV
R1710018-006	Thallium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 19:45:38	N	IV
R1710018-007	Chromium, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	10	30	100			10/31/17 19:48:57	N	IV
R1710018-007	Aluminum, Total	N/A		Water	0.91 ppm	50 mL	910 µg/L	1	100	400			10/31/17 19:52:16	N	IV
R1710018-007	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			10/31/17 19:52:16	N	IV
R1710018-007	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:52:16	N	IV
R1710018-007	Barium, Total	N/A		Water	0.03 ppm	50 mL	25 µg/L J	1	13	40			10/31/17 19:52:16	N	IV
R1710018-007	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.7	5.0			10/31/17 19:52:16	N	IV
R1710018-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			10/31/17 19:52:16	N	IV

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568339 **Method/Testcode:** 6010C/Ca T DOD

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21710018-007	Calcium, Total	N/A		Water	51.51 ppm	50 mL	51500 µg/L	1	400	1000			10/31/17 19:52:16	N	IV
21710018-007	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 19:52:16	N	IV
21710018-007	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			10/31/17 19:52:16	N	IV
21710018-007	Iron, Total	N/A		Water	1.06 ppm	50 mL	1060 µg/L	1	80	200			10/31/17 19:52:16	N	IV
21710018-007	Lead, Total	N/A		Water	0.02 ppm	50 mL	22 µg/L	1	4	10			10/31/17 19:52:16	N	IV
21710018-007	Magnesium, Total	N/A		Water	3.46 ppm	50 mL	3500 µg/L	1	300	1000			10/31/17 19:52:16	N	IV
21710018-007	Nickel, Total	N/A		Water	0.01 ppm	50 mL	40 µg/L U	1	9	40			10/31/17 19:52:16	N	IV
21710018-007	Potassium, Total	N/A		Water	51.02 ppm	50 mL	51000 µg/L	1	300	2000			10/31/17 19:52:16	N	IV
21710018-007	Selenium, Total	N/A		Water	0.10 ppm	50 mL	100 µg/L	1	4	10			10/31/17 19:52:16	N	IV
21710018-007	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			10/31/17 19:52:16	N	IV
21710018-007	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 19:52:16	N	IV
21710018-007	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 19:52:16	N	IV
21710018-007	Zinc, Total	N/A		Water	0.01 ppm	50 mL	15 µg/L J	1	7	40			10/31/17 19:52:16	N	IV
21710018-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:55:36	N	IV
21710018-008	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 19:55:36	N	IV
21710018-008	Thallium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 19:55:36	N	IV
21710018-009	Lead, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	100	400	1000			10/31/17 19:58:56	N	IV
21710018-009	Thallium, Total	N/A		Water	0.00 ppm	50 mL	2000 µg/L U	100	600	2000			10/31/17 19:58:56	N	IV
21710018-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:02:15	N	IV
21710018-010	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:02:15	N	IV
21710018-010	Thallium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 20:02:15	N	IV
21710018-011	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:05:34	N	IV
21710018-011	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:05:34	N	IV
21710018-011	Thallium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	6	20			10/31/17 20:05:34	N	IV
21710191-001	Calcium, Total	N/A		Water	23.83 ppm	50 mL	238000 µg/L	10	4000	10000			10/31/17 20:08:53	N	II
21710191-001	Sodium, Total	N/A		Water	25.56 ppm	50 mL	256000 µg/L	10	4000	10000			10/31/17 20:08:53	N	II

J indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568344 **Method/Testcode:** 6010C/As T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711245-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:45:24	N	IV
RQ1711245-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			10/31/17 20:45:24	N	IV
RQ1711245-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			10/31/17 20:45:24	N	IV
RQ1711245-01	Calcium, Dissolved	MB		Water	-0.01 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 20:45:24	N	IV
RQ1711245-01	Calcium, Total	MB		Water	-0.01 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 20:45:24	N	IV
RQ1711245-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			10/31/17 20:45:24	N	IV
RQ1711245-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			10/31/17 20:45:24	N	IV
RQ1711245-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			10/31/17 20:45:24	N	IV
RQ1711245-01	Lead, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:45:24	N	IV
RQ1711245-01	Lead, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:45:24	N	IV
RQ1711245-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			10/31/17 20:45:24	N	IV
RQ1711245-01	Magnesium, Dissolved	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	300	1000			10/31/17 20:45:24	N	IV
RQ1711245-01	Magnesium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	300	1000			10/31/17 20:45:24	N	IV
RQ1711245-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			10/31/17 20:45:24	N	IV
RQ1711245-01	Potassium, Total	MB		Water	0.03 ppm	50 mL	2000 µg/L U	1	300	2000			10/31/17 20:45:24	N	IV
RQ1711245-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:45:24	N	IV
RQ1711245-01	Sodium, Total	MB		Water	-0.01 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 20:45:24	N	IV
RQ1711245-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			10/31/17 20:45:24	N	IV
RQ1711245-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	38.8 µg/L	1	4	10	97		10/31/17 20:48:43	N	IV
RQ1711245-02	Barium, Total	LCS		Water	2.08 ppm	50 mL	2080 µg/L	1	13	20	104		10/31/17 20:48:43	N	IV
RQ1711245-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	52.6 µg/L	1	0.9	5.0	105		10/31/17 20:48:43	N	IV
RQ1711245-02	Calcium, Dissolved	LCS		Water	1.88 ppm	50 mL	1880 µg/L	1	400	1000	94		10/31/17 20:48:43	N	IV
RQ1711245-02	Calcium, Total	LCS		Water	1.88 ppm	50 mL	1880 µg/L	1	400	1000	94		10/31/17 20:48:43	N	IV
RQ1711245-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	200 µg/L	1	3	10	100		10/31/17 20:48:43	N	IV
RQ1711245-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	239 µg/L	1	10	20	95		10/31/17 20:48:43	N	IV
RQ1711245-02	Iron, Total	LCS		Water	0.99 ppm	50 mL	985 µg/L	1	80	100	99		10/31/17 20:48:43	N	IV
RQ1711245-02	Lead, Dissolved	LCS		Water	0.52 ppm	50 mL	522 µg/L	1	4	10	104		10/31/17 20:48:43	N	IV
RQ1711245-02	Lead, Total	LCS		Water	0.52 ppm	50 mL	522 µg/L	1	4	10	104		10/31/17 20:48:43	N	IV
RQ1711245-02	Lead, Total	LCS		Water	0.52 ppm	50 mL	522 µg/L	1	4	50	104		10/31/17 20:48:43	N	IV
RQ1711245-02	Magnesium, Dissolved	LCS		Water	2.02 ppm	50 mL	2020 µg/L	1	300	1000	101		10/31/17 20:48:43	N	IV
RQ1711245-02	Magnesium, Total	LCS		Water	2.02 ppm	50 mL	2020 µg/L	1	300	1000	101		10/31/17 20:48:43	N	IV
RQ1711245-02	Nickel, Total	LCS		Water	0.52 ppm	50 mL	516 µg/L	1	9	40	103		10/31/17 20:48:43	N	IV
RQ1711245-02	Potassium, Total	LCS		Water	18.67 ppm	50 mL	18700 µg/L	1	300	2000	93		10/31/17 20:48:43	N	IV
RQ1711245-02	Selenium, Total	LCS		Water	1.06 ppm	50 mL	1060 µg/L	1	4	10	105		10/31/17 20:48:43	N	IV
RQ1711245-02	Sodium, Total	LCS		Water	18.97 ppm	50 mL	19000 µg/L	1	400	1000	95		10/31/17 20:48:43	N	IV
RQ1711245-02	Zinc, Total	LCS		Water	0.51 ppm	50 mL	512 µg/L	1	7	20	102		10/31/17 20:48:43	N	IV

[1] indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568344 **Method/Testcode:** 6010C/As T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1710031-019	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:52:03	N	II
R1710031-019	Barium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			10/31/17 20:52:03	N	II
R1710031-019	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			10/31/17 20:52:03	N	II
R1710031-019	Calcium, Total	N/A		Water	0.23 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 20:52:03	N	II
R1710031-019	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			10/31/17 20:52:03	N	II
R1710031-019	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			10/31/17 20:52:03	N	II
R1710031-019	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			10/31/17 20:52:03	N	II
R1710031-019	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			10/31/17 20:52:03	N	II
R1710031-019	Magnesium, Total	N/A		Water	0.03 ppm	50 mL	1000 µg/L U	1	300	1000			10/31/17 20:52:03	N	II
R1710031-019	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			10/31/17 20:52:03	N	II
R1710031-019	Potassium, Total	N/A		Water	0.09 ppm	50 mL	2000 µg/L U	1	300	2000			10/31/17 20:52:03	N	II
R1710031-019	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:52:03	N	II
R1710031-019	Sodium, Total	N/A		Water	0.58 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 20:52:03	N	II
R1710031-019	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			10/31/17 20:52:03	N	II
R1710033-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:55:21	N	II
R1710033-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 20:58:40	N	II
R1710033-003	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 21:02:00	N	II
R1710033-004	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 21:05:19	N	II
R1710033-005	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 21:08:38	N	II
RQ1711245-07	Arsenic, Total	MS	R1710033-005	Water	0.05 ppm	50 mL	45 µg/L	1	4	10	113		10/31/17 21:11:58	N	II
RQ1711245-08	Arsenic, Total	DMS	R1710033-005	Water	0.04 ppm	50 mL	43 µg/L	1	4	10	108	5	10/31/17 21:15:17	N	II
C1710862-001	Calcium, Dissolved	N/A		Water	2.08 ppm	50 mL	2100 µg/L	1	400	1000			10/31/17 21:31:53	N	IV
C1710862-001	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 21:31:53	N	IV
C1710862-001	Magnesium, Dissolved	N/A		Water	1.11 ppm	50 mL	1100 µg/L	1	300	1000			10/31/17 21:31:53	N	IV
C1710862-002	Calcium, Dissolved	N/A		Water	2.13 ppm	50 mL	2100 µg/L	1	400	1000			10/31/17 21:35:12	N	IV
C1710862-002	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 21:35:12	N	IV
C1710862-002	Magnesium, Dissolved	N/A		Water	1.11 ppm	50 mL	1100 µg/L	1	300	1000			10/31/17 21:35:12	N	IV
C1710862-003	Calcium, Dissolved	N/A		Water	2.14 ppm	50 mL	2100 µg/L	1	400	1000			10/31/17 21:38:30	N	IV
C1710862-003	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 21:38:30	N	IV
C1710862-003	Magnesium, Dissolved	N/A		Water	1.12 ppm	50 mL	1100 µg/L	1	300	1000			10/31/17 21:38:30	N	IV
C1710862-004	Calcium, Dissolved	N/A		Water	2.17 ppm	50 mL	2200 µg/L	1	400	1000			10/31/17 21:41:49	N	IV
C1710862-004	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 21:41:49	N	IV
C1710862-004	Magnesium, Dissolved	N/A		Water	1.13 ppm	50 mL	1100 µg/L	1	300	1000			10/31/17 21:41:49	N	IV
C1710862-005	Calcium, Dissolved	N/A		Water	2.21 ppm	50 mL	2200 µg/L	1	400	1000			10/31/17 21:45:08	N	IV
C1710862-005	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 21:45:08	N	IV
C1710862-005	Magnesium, Dissolved	N/A		Water	1.16 ppm	50 mL	1200 µg/L	1	300	1000			10/31/17 21:45:08	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568344 **Method/Testcode:** 6010C/Ca D DOD

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K1710862-006	Calcium, Dissolved	N/A		Water	4.09 ppm	50 mL	4100 µg/L	1	400	1000			10/31/17 21:48:27	N	IV
K1710862-006	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 21:48:27	N	IV
K1710862-006	Magnesium, Dissolved	N/A		Water	1.98 ppm	50 mL	2000 µg/L	1	300	1000			10/31/17 21:48:27	N	IV
KQ1711245-05	Calcium, Dissolved	MS	K1710862-006	Water	5.94 ppm	50 mL	5900 µg/L	1	400	1000	93		10/31/17 21:51:46	N	IV
KQ1711245-05	Lead, Dissolved	MS	K1710862-006	Water	0.51 ppm	50 mL	512 µg/L	1	4	10	102		10/31/17 21:51:46	N	IV
KQ1711245-05	Magnesium, Dissolved	MS	K1710862-006	Water	3.93 ppm	50 mL	3900 µg/L	1	300	1000	97		10/31/17 21:51:46	N	IV
KQ1711245-06	Calcium, Dissolved	DMS	K1710862-006	Water	6.00 ppm	50 mL	6000 µg/L	1	400	1000	96	1	10/31/17 21:55:05	N	IV
KQ1711245-06	Lead, Dissolved	DMS	K1710862-006	Water	0.51 ppm	50 mL	515 µg/L	1	4	10	103	<1	10/31/17 21:55:05	N	IV
KQ1711245-06	Magnesium, Dissolved	DMS	K1710862-006	Water	3.95 ppm	50 mL	4000 µg/L	1	300	1000	98	<1	10/31/17 21:55:05	N	IV
K1710862-007	Calcium, Dissolved	N/A		Water	0.01 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 22:11:40	N	IV
K1710862-007	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 22:11:40	N	IV
K1710862-007	Magnesium, Dissolved	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			10/31/17 22:11:40	N	IV
K1710862-008	Calcium, Dissolved	N/A		Water	4.35 ppm	50 mL	4400 µg/L	1	400	1000			10/31/17 22:14:59	N	IV
K1710862-008	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 22:14:59	N	IV
K1710862-008	Magnesium, Dissolved	N/A		Water	2.17 ppm	50 mL	2200 µg/L	1	300	1000			10/31/17 22:14:59	N	IV
K1710862-009	Calcium, Dissolved	N/A		Water	4.37 ppm	50 mL	4400 µg/L	1	400	1000			10/31/17 22:18:18	N	IV
K1710862-009	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 22:18:18	N	IV
K1710862-009	Magnesium, Dissolved	N/A		Water	2.18 ppm	50 mL	2200 µg/L	1	300	1000			10/31/17 22:18:18	N	IV
K1710862-010	Calcium, Dissolved	N/A		Water	4.34 ppm	50 mL	4300 µg/L	1	400	1000			10/31/17 22:21:38	N	IV
K1710862-010	Lead, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 22:21:38	N	IV
K1710862-010	Magnesium, Dissolved	N/A		Water	2.15 ppm	50 mL	2200 µg/L	1	300	1000			10/31/17 22:21:38	N	IV
K1710862-001	Lead, Total	N/A		Water	0.01 ppm	50 mL	7 µg/L J	1	4	10			10/31/17 22:24:56	N	IV
K1710862-002	Lead, Total	N/A		Water	0.01 ppm	50 mL	7 µg/L J	1	4	10			10/31/17 22:28:16	N	IV
K1710862-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 22:31:35	N	IV
KQ1711245-03	Lead, Total	MS	K1710862-006	Water	0.51 ppm	50 mL	509 µg/L	1	4	10	102		10/31/17 22:34:53	N	IV
KQ1711245-04	Lead, Total	DMS	K1710862-006	Water	0.51 ppm	50 mL	510 µg/L	1	4	10	102	<1	10/31/17 22:44:50	N	IV
K1710862-014	Lead, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 22:54:48	N	IV

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Al D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711248-01	Aluminum, Dissolved	MB		Water	0.01 ppm	50 mL	100 µg/L U	1	100	100			10/31/17 23:21:22	N	II
RQ1711248-01	Aluminum, Total	MB		Water	0.01 ppm	50 mL	100 µg/L U	1	100	100			10/31/17 23:21:22	N	II
RQ1711248-01	Antimony, Dissolved	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			10/31/17 23:21:22	N	II
RQ1711248-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			10/31/17 23:21:22	N	II
RQ1711248-01	Arsenic, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:21:22	N	II
RQ1711248-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:21:22	N	II
RQ1711248-01	Barium, Dissolved	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			10/31/17 23:21:22	N	II
RQ1711248-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			10/31/17 23:21:22	N	II
RQ1711248-01	Beryllium, Dissolved	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			10/31/17 23:21:22	N	II
RQ1711248-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			10/31/17 23:21:22	N	II
RQ1711248-01	Boron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	80	200			10/31/17 23:21:22	N	II
RQ1711248-01	Cadmium, Dissolved	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			10/31/17 23:21:22	N	II
RQ1711248-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			10/31/17 23:21:22	N	II
RQ1711248-01	Calcium, Dissolved	MB		Water	0.04 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 23:21:22	N	II
RQ1711248-01	Calcium, Total	MB		Water	0.04 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 23:21:22	N	II
RQ1711248-01	Chromium, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			10/31/17 23:21:22	N	II
RQ1711248-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			10/31/17 23:21:22	N	II
RQ1711248-01	Cobalt, Dissolved	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:21:22	N	II
RQ1711248-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:21:22	N	II
RQ1711248-01	Copper, Dissolved	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			10/31/17 23:21:22	N	II
RQ1711248-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			10/31/17 23:21:22	N	II
RQ1711248-01	Iron, Dissolved	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			10/31/17 23:21:22	N	II
RQ1711248-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			10/31/17 23:21:22	N	II
RQ1711248-01	Lead, Dissolved	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			10/31/17 23:21:22	N	II
RQ1711248-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			10/31/17 23:21:22	N	II
RQ1711248-01	Magnesium, Dissolved	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			10/31/17 23:21:22	N	II
RQ1711248-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			10/31/17 23:21:22	N	II
RQ1711248-01	Nickel, Dissolved	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			10/31/17 23:21:22	N	II
RQ1711248-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			10/31/17 23:21:22	N	II
RQ1711248-01	Potassium, Dissolved	MB		Water	0.12 ppm	50 mL	2000 µg/L U	1	300	2000			10/31/17 23:21:22	N	II
RQ1711248-01	Potassium, Total	MB		Water	0.12 ppm	50 mL	2000 µg/L U	1	300	2000			10/31/17 23:21:22	N	II
RQ1711248-01	Selenium, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:21:22	N	II
RQ1711248-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:21:22	N	II
RQ1711248-01	Silver, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			10/31/17 23:21:22	N	II
RQ1711248-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			10/31/17 23:21:22	N	II
RQ1711248-01	Sodium, Dissolved	MB		Water	0.02 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 23:21:22	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Na T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711248-01	Sodium, Total	MB		Water	0.02 ppm	50 mL	1000 µg/L U	1	400	1000			10/31/17 23:21:22	N	II
RQ1711248-01	Thallium, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			10/31/17 23:21:22	N	II
RQ1711248-01	Thallium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			10/31/17 23:21:22	N	II
RQ1711248-01	Vanadium, Dissolved	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:21:22	N	II
RQ1711248-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:21:22	N	II
RQ1711248-01	Zinc, Dissolved	MB		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			10/31/17 23:21:22	N	II
RQ1711248-01	Zinc, Total	MB		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			10/31/17 23:21:22	N	II
RQ1711248-02	Aluminum, Dissolved	LCS		Water	1.81 ppm	50 mL	1810 µg/L	1	100	100	90		10/31/17 23:24:41	N	II
RQ1711248-02	Aluminum, Total	LCS		Water	1.81 ppm	50 mL	1810 µg/L	1	100	100	90		10/31/17 23:24:41	N	II
RQ1711248-02	Antimony, Dissolved	LCS		Water	0.49 ppm	50 mL	485 µg/L	1	8	60	97		10/31/17 23:24:41	N	II
RQ1711248-02	Antimony, Total	LCS		Water	0.49 ppm	50 mL	485 µg/L	1	8	60	97		10/31/17 23:24:41	N	II
RQ1711248-02	Arsenic, Dissolved	LCS		Water	0.04 ppm	50 mL	37.7 µg/L	1	4	10	94		10/31/17 23:24:41	N	II
RQ1711248-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	37.7 µg/L	1	4	10	94		10/31/17 23:24:41	N	II
RQ1711248-02	Barium, Dissolved	LCS		Water	2.04 ppm	50 mL	2040 µg/L	1	13	20	102		10/31/17 23:24:41	N	II
RQ1711248-02	Barium, Total	LCS		Water	2.04 ppm	50 mL	2040 µg/L	1	13	20	102		10/31/17 23:24:41	N	II
RQ1711248-02	Beryllium, Dissolved	LCS		Water	0.05 ppm	50 mL	49.4 µg/L	1	0.7	3.0	99		10/31/17 23:24:41	N	II
RQ1711248-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	49.4 µg/L	1	0.7	3.0	99		10/31/17 23:24:41	N	II
RQ1711248-02	Boron, Total	LCS		Water	0.95 ppm	50 mL	950 µg/L	1	80	200	95		10/31/17 23:24:41	N	II
RQ1711248-02	Cadmium, Dissolved	LCS		Water	0.05 ppm	50 mL	50.8 µg/L	1	0.9	5.0	102		10/31/17 23:24:41	N	II
RQ1711248-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	50.8 µg/L	1	0.9	5.0	102		10/31/17 23:24:41	N	II
RQ1711248-02	Calcium, Dissolved	LCS		Water	1.90 ppm	50 mL	1900 µg/L	1	400	1000	95		10/31/17 23:24:41	N	II
RQ1711248-02	Calcium, Total	LCS		Water	1.90 ppm	50 mL	1900 µg/L	1	400	1000	95		10/31/17 23:24:41	N	II
RQ1711248-02	Chromium, Dissolved	LCS		Water	0.20 ppm	50 mL	197 µg/L	1	3	10	98		10/31/17 23:24:41	N	II
RQ1711248-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	197 µg/L	1	3	10	98		10/31/17 23:24:41	N	II
RQ1711248-02	Cobalt, Dissolved	LCS		Water	0.51 ppm	50 mL	507 µg/L	1	3	50	101		10/31/17 23:24:41	N	II
RQ1711248-02	Cobalt, Total	LCS		Water	0.51 ppm	50 mL	507 µg/L	1	3	50	101		10/31/17 23:24:41	N	II
RQ1711248-02	Copper, Dissolved	LCS		Water	0.24 ppm	50 mL	236 µg/L	1	10	20	94		10/31/17 23:24:41	N	II
RQ1711248-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	236 µg/L	1	10	20	94		10/31/17 23:24:41	N	II
RQ1711248-02	Iron, Dissolved	LCS		Water	0.97 ppm	50 mL	967 µg/L	1	80	100	97		10/31/17 23:24:41	N	II
RQ1711248-02	Iron, Total	LCS		Water	0.97 ppm	50 mL	967 µg/L	1	80	100	97		10/31/17 23:24:41	N	II
RQ1711248-02	Lead, Dissolved	LCS		Water	0.51 ppm	50 mL	510 µg/L	1	4	50	102		10/31/17 23:24:41	N	II
RQ1711248-02	Lead, Total	LCS		Water	0.51 ppm	50 mL	510 µg/L	1	4	50	102		10/31/17 23:24:41	N	II
RQ1711248-02	Magnesium, Dissolved	LCS		Water	1.98 ppm	50 mL	1980 µg/L	1	300	1000	99		10/31/17 23:24:41	N	II
RQ1711248-02	Magnesium, Total	LCS		Water	1.98 ppm	50 mL	1980 µg/L	1	300	1000	99		10/31/17 23:24:41	N	II
RQ1711248-02	Nickel, Dissolved	LCS		Water	0.50 ppm	50 mL	504 µg/L	1	9	40	101		10/31/17 23:24:41	N	II
RQ1711248-02	Nickel, Total	LCS		Water	0.50 ppm	50 mL	504 µg/L	1	9	40	101		10/31/17 23:24:41	N	II

[4] indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/K D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
KQ1711248-02	Potassium, Dissolved	LCS		Water	18.73 ppm	50 mL	18700 µg/L	1	300	2000	94		10/31/17 23:24:41	N	II
KQ1711248-02	Potassium, Total	LCS		Water	18.73 ppm	50 mL	18700 µg/L	1	300	2000	94		10/31/17 23:24:41	N	II
KQ1711248-02	Selenium, Dissolved	LCS		Water	1.05 ppm	50 mL	1050 µg/L	1	4	10	104		10/31/17 23:24:41	N	II
KQ1711248-02	Selenium, Total	LCS		Water	1.05 ppm	50 mL	1050 µg/L	1	4	10	104		10/31/17 23:24:41	N	II
KQ1711248-02	Silver, Dissolved	LCS		Water	0.05 ppm	50 mL	48.6 µg/L	1	2	10	97		10/31/17 23:24:41	N	II
KQ1711248-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	48.6 µg/L	1	2	10	97		10/31/17 23:24:41	N	II
KQ1711248-02	Sodium, Dissolved	LCS		Water	18.95 ppm	50 mL	19000 µg/L	1	400	1000	95		10/31/17 23:24:41	N	II
KQ1711248-02	Sodium, Total	LCS		Water	18.95 ppm	50 mL	19000 µg/L	1	400	1000	95		10/31/17 23:24:41	N	II
KQ1711248-02	Thallium, Dissolved	LCS		Water	1.82 ppm	50 mL	1820 µg/L	1	6	10	91		10/31/17 23:24:41	N	II
KQ1711248-02	Thallium, Total	LCS		Water	1.82 ppm	50 mL	1820 µg/L	1	6	10	91		10/31/17 23:24:41	N	II
KQ1711248-02	Vanadium, Dissolved	LCS		Water	0.49 ppm	50 mL	490 µg/L	1	3	50	98		10/31/17 23:24:41	N	II
KQ1711248-02	Vanadium, Total	LCS		Water	0.49 ppm	50 mL	490 µg/L	1	3	50	98		10/31/17 23:24:41	N	II
KQ1711248-02	Zinc, Dissolved	LCS		Water	0.51 ppm	50 mL	508 µg/L	1	7	20	102		10/31/17 23:24:41	N	II
KQ1711248-02	Zinc, Total	LCS		Water	0.51 ppm	50 mL	508 µg/L	1	7	20	102		10/31/17 23:24:41	N	II
K1710054-001	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	100	100			10/31/17 23:28:00	N	II
K1710054-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			10/31/17 23:28:00	N	II
K1710054-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:28:00	N	II
K1710054-001	Barium, Total	N/A		Water	0.07 ppm	50 mL	72 µg/L	1	13	20			10/31/17 23:28:00	N	II
K1710054-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			10/31/17 23:28:00	N	II
K1710054-001	Boron, Total	N/A		Water	0.04 ppm	50 mL	200 µg/L U	1	80	200			10/31/17 23:28:00	N	II
K1710054-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			10/31/17 23:28:00	N	II
K1710054-001	Calcium, Total	N/A		Water	34.70 ppm	50 mL	34700 µg/L	1	400	1000			10/31/17 23:28:00	N	II
K1710054-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			10/31/17 23:28:00	N	II
K1710054-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:28:00	N	II
K1710054-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			10/31/17 23:28:00	N	II
K1710054-001	Iron, Total	N/A		Water	0.07 ppm	50 mL	100 µg/L U	1	80	100			10/31/17 23:28:00	N	II
K1710054-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			10/31/17 23:28:00	N	II
K1710054-001	Magnesium, Total	N/A		Water	19.46 ppm	50 mL	19500 µg/L	1	300	1000			10/31/17 23:28:00	N	II
K1710054-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			10/31/17 23:28:00	N	II
K1710054-001	Potassium, Total	N/A		Water	3.88 ppm	50 mL	3900 µg/L	1	300	2000			10/31/17 23:28:00	N	II
K1710054-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:28:00	N	II
K1710054-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			10/31/17 23:28:00	N	II
K1710054-001	Sodium, Total	N/A		Water	45.46 ppm	50 mL	45500 µg/L	1	400	1000			10/31/17 23:28:00	N	II
K1710054-001	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			10/31/17 23:28:00	N	II
K1710054-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:28:00	N	II
K1710054-001	Zinc, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	7	10			10/31/17 23:28:00	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711248-03	Aluminum, Total	MS	R1710054-001	Water	1.94 ppm	50 mL	1940 µg/L	1	100	100	97		10/31/17 23:31:19	N	II
RQ1711248-03	Antimony, Total	MS	R1710054-001	Water	0.51 ppm	50 mL	506 µg/L	1	8	60	101		10/31/17 23:31:19	N	II
RQ1711248-03	Arsenic, Total	MS	R1710054-001	Water	0.04 ppm	50 mL	42 µg/L	1	4	10	104		10/31/17 23:31:19	N	II
RQ1711248-03	Barium, Total	MS	R1710054-001	Water	2.09 ppm	50 mL	2090 µg/L	1	13	20	101		10/31/17 23:31:19	N	II
RQ1711248-03	Beryllium, Total	MS	R1710054-001	Water	0.05 ppm	50 mL	50.4 µg/L	1	0.7	3.0	101		10/31/17 23:31:19	N	II
RQ1711248-03	Boron, Total	MS	R1710054-001	Water	1.01 ppm	50 mL	1010 µg/L	1	80	200	101		10/31/17 23:31:19	N	II
RQ1711248-03	Cadmium, Total	MS	R1710054-001	Water	0.05 ppm	50 mL	50.6 µg/L	1	0.9	5.0	101		10/31/17 23:31:19	N	II
RQ1711248-03	Calcium, Total	MS	R1710054-001	Water	37.62 ppm	50 mL	37600 µg/L	1	400	1000	146*		10/31/17 23:31:19	N	II
RQ1711248-03	Chromium, Total	MS	R1710054-001	Water	0.20 ppm	50 mL	198 µg/L	1	3	10	99		10/31/17 23:31:19	N	II
RQ1711248-03	Cobalt, Total	MS	R1710054-001	Water	0.50 ppm	50 mL	504 µg/L	1	3	50	101		10/31/17 23:31:19	N	II
RQ1711248-03	Copper, Total	MS	R1710054-001	Water	0.24 ppm	50 mL	242 µg/L	1	10	20	97		10/31/17 23:31:19	N	II
RQ1711248-03	Iron, Total	MS	R1710054-001	Water	1.04 ppm	50 mL	1040 µg/L	1	80	100	104		10/31/17 23:31:19	N	II
RQ1711248-03	Lead, Total	MS	R1710054-001	Water	0.50 ppm	50 mL	502 µg/L	1	4	50	100		10/31/17 23:31:19	N	II
RQ1711248-03	Magnesium, Total	MS	R1710054-001	Water	21.69 ppm	50 mL	21700 µg/L	1	300	1000	111		10/31/17 23:31:19	N	II
RQ1711248-03	Nickel, Total	MS	R1710054-001	Water	0.50 ppm	50 mL	496 µg/L	1	9	40	99		10/31/17 23:31:19	N	II
RQ1711248-03	Potassium, Total	MS	R1710054-001	Water	23.80 ppm	50 mL	23800 µg/L	1	300	2000	100		10/31/17 23:31:19	N	II
RQ1711248-03	Selenium, Total	MS	R1710054-001	Water	1.08 ppm	50 mL	1080 µg/L	1	4	10	107		10/31/17 23:31:19	N	II
RQ1711248-03	Silver, Total	MS	R1710054-001	Water	0.05 ppm	50 mL	50 µg/L	1	2	10	99		10/31/17 23:31:19	N	II
RQ1711248-03	Sodium, Total	MS	R1710054-001	Water	65.06 ppm	50 mL	65100 µg/L	1	400	1000	98		10/31/17 23:31:19	N	II
RQ1711248-03	Thallium, Total	MS	R1710054-001	Water	1.91 ppm	50 mL	1910 µg/L	1	6	10	95		10/31/17 23:31:19	N	II
RQ1711248-03	Vanadium, Total	MS	R1710054-001	Water	0.50 ppm	50 mL	499 µg/L	1	3	50	100		10/31/17 23:31:19	N	II
RQ1711248-03	Zinc, Total	MS	R1710054-001	Water	0.51 ppm	50 mL	508 µg/L	1	7	20	102		10/31/17 23:31:19	N	II
RQ1711248-04	Aluminum, Total	DMS	R1710054-001	Water	1.92 ppm	50 mL	1920 µg/L	1	100	100	96	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Antimony, Total	DMS	R1710054-001	Water	0.50 ppm	50 mL	501 µg/L	1	8	60	100	1	10/31/17 23:34:38	N	II
RQ1711248-04	Arsenic, Total	DMS	R1710054-001	Water	0.04 ppm	50 mL	40 µg/L	1	4	10	100	3	10/31/17 23:34:38	N	II
RQ1711248-04	Barium, Total	DMS	R1710054-001	Water	2.08 ppm	50 mL	2080 µg/L	1	13	20	101	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Beryllium, Total	DMS	R1710054-001	Water	0.05 ppm	50 mL	50.1 µg/L	1	0.7	3.0	100	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Boron, Total	DMS	R1710054-001	Water	1.01 ppm	50 mL	1010 µg/L	1	80	200	101	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Cadmium, Total	DMS	R1710054-001	Water	0.05 ppm	50 mL	50.4 µg/L	1	0.9	5.0	101	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Calcium, Total	DMS	R1710054-001	Water	36.73 ppm	50 mL	36700 µg/L	1	400	1000	102	2	10/31/17 23:34:38	N	II
RQ1711248-04	Chromium, Total	DMS	R1710054-001	Water	0.20 ppm	50 mL	197 µg/L	1	3	10	98	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Cobalt, Total	DMS	R1710054-001	Water	0.50 ppm	50 mL	502 µg/L	1	3	50	100	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Copper, Total	DMS	R1710054-001	Water	0.24 ppm	50 mL	240 µg/L	1	10	20	96	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Iron, Total	DMS	R1710054-001	Water	1.03 ppm	50 mL	1030 µg/L	1	80	100	103	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Lead, Total	DMS	R1710054-001	Water	0.50 ppm	50 mL	501 µg/L	1	4	50	100	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Magnesium, Total	DMS	R1710054-001	Water	21.21 ppm	50 mL	21200 µg/L	1	300	1000	88	2	10/31/17 23:34:38	N	II

* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Ni T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711248-04	Nickel, Total	DMS	R1710054-001	Water	0.49 ppm	50 mL	494 µg/L	1	9	40	99	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Potassium, Total	DMS	R1710054-001	Water	23.55 ppm	50 mL	23600 µg/L	1	300	2000	98	1	10/31/17 23:34:38	N	II
RQ1711248-04	Selenium, Total	DMS	R1710054-001	Water	1.08 ppm	50 mL	1080 µg/L	1	4	10	107	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Silver, Total	DMS	R1710054-001	Water	0.05 ppm	50 mL	49 µg/L	1	2	10	99	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Sodium, Total	DMS	R1710054-001	Water	63.68 ppm	50 mL	63700 µg/L	1	400	1000	91	2	10/31/17 23:34:38	N	II
RQ1711248-04	Thallium, Total	DMS	R1710054-001	Water	1.90 ppm	50 mL	1900 µg/L	1	6	10	95	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Vanadium, Total	DMS	R1710054-001	Water	0.50 ppm	50 mL	497 µg/L	1	3	50	99	<1	10/31/17 23:34:38	N	II
RQ1711248-04	Zinc, Total	DMS	R1710054-001	Water	0.50 ppm	50 mL	502 µg/L	1	7	20	100	1	10/31/17 23:34:38	N	II
R1710054-002	Aluminum, Total	N/A		Water	0.04 ppm	50 mL	100 µg/L U	1	100	100			10/31/17 23:44:35	N	II
R1710054-002	Antimony, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			10/31/17 23:44:35	N	II
R1710054-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:44:35	N	II
R1710054-002	Barium, Total	N/A		Water	0.04 ppm	50 mL	36 µg/L	1	13	20			10/31/17 23:44:35	N	II
R1710054-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			10/31/17 23:44:35	N	II
R1710054-002	Boron, Total	N/A		Water	0.06 ppm	50 mL	200 µg/L U	1	80	200			10/31/17 23:44:35	N	II
R1710054-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			10/31/17 23:44:35	N	II
R1710054-002	Calcium, Total	N/A		Water	249.32 ppm	50 mL	249000 µg/L	1	400	1000			10/31/17 23:44:35	N	II
R1710054-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			10/31/17 23:44:35	N	II
R1710054-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:44:35	N	II
R1710054-002	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			10/31/17 23:44:35	N	II
R1710054-002	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			10/31/17 23:44:35	N	II
R1710054-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			10/31/17 23:44:35	N	II
R1710054-002	Magnesium, Total	N/A		Water	36.17 ppm	50 mL	36200 µg/L	1	300	1000			10/31/17 23:44:35	N	II
R1710054-002	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			10/31/17 23:44:35	N	II
R1710054-002	Potassium, Total	N/A		Water	2.48 ppm	50 mL	2500 µg/L	1	300	2000			10/31/17 23:44:35	N	II
R1710054-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:44:35	N	II
R1710054-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			10/31/17 23:44:35	N	II
R1710054-002	Sodium, Total	N/A		Water	59.96 ppm	50 mL	60000 µg/L	1	400	1000			10/31/17 23:44:35	N	II
R1710054-002	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			10/31/17 23:44:35	N	II
R1710054-002	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:44:35	N	II
R1710054-002	Zinc, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			10/31/17 23:44:35	N	II
R1710054-004	Aluminum, Total	N/A		Water	0.20 ppm	50 mL	200 µg/L	1	100	100			10/31/17 23:47:53	N	II
R1710054-004	Antimony, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			10/31/17 23:47:53	N	II
R1710054-004	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:47:53	N	II
R1710054-004	Barium, Total	N/A		Water	0.21 ppm	50 mL	208 µg/L	1	13	20			10/31/17 23:47:53	N	II
R1710054-004	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			10/31/17 23:47:53	N	II
R1710054-004	Boron, Total	N/A		Water	0.05 ppm	50 mL	200 µg/L U	1	80	200			10/31/17 23:47:53	N	II

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710054-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			10/31/17 23:47:53	N	II
1710054-004	Calcium, Total	N/A		Water	175.05 ppm	50 mL	175000 µg/L	1	400	1000			10/31/17 23:47:53	N	II
1710054-004	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			10/31/17 23:47:53	N	II
1710054-004	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	3	50			10/31/17 23:47:53	N	II
1710054-004	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			10/31/17 23:47:53	N	II
1710054-004	Iron, Total	N/A		Water	0.21 ppm	50 mL	210 µg/L	1	80	100			10/31/17 23:47:53	N	II
1710054-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			10/31/17 23:47:53	N	II
1710054-004	Magnesium, Total	N/A		Water	28.66 ppm	50 mL	28700 µg/L	1	300	1000			10/31/17 23:47:53	N	II
1710054-004	Nickel, Total	N/A		Water	0.01 ppm	50 mL	40 µg/L U	1	9	40			10/31/17 23:47:53	N	II
1710054-004	Potassium, Total	N/A		Water	4.85 ppm	50 mL	4800 µg/L	1	300	2000			10/31/17 23:47:53	N	II
1710054-004	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:47:53	N	II
1710054-004	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			10/31/17 23:47:53	N	II
1710054-004	Sodium, Total	N/A		Water	42.31 ppm	50 mL	42300 µg/L	1	400	1000			10/31/17 23:47:53	N	II
1710054-004	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			10/31/17 23:47:53	N	II
1710054-004	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:47:53	N	II
1710054-004	Zinc, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			10/31/17 23:47:53	N	II
1710054-006	Aluminum, Total	N/A		Water	0.17 ppm	50 mL	170 µg/L	1	100	100			10/31/17 23:51:13	N	II
1710054-006	Antimony, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			10/31/17 23:51:13	N	II
1710054-006	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:51:13	N	II
1710054-006	Barium, Total	N/A		Water	0.33 ppm	50 mL	334 µg/L	1	13	20			10/31/17 23:51:13	N	II
1710054-006	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			10/31/17 23:51:13	N	II
1710054-006	Boron, Total	N/A		Water	0.16 ppm	50 mL	160 µg/L J	1	80	200			10/31/17 23:51:13	N	II
1710054-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			10/31/17 23:51:13	N	II
1710054-006	Calcium, Total	N/A		Water	246.92 ppm	50 mL	247000 µg/L	1	400	1000			10/31/17 23:51:13	N	II
1710054-006	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			10/31/17 23:51:13	N	II
1710054-006	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:51:13	N	II
1710054-006	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			10/31/17 23:51:13	N	II
1710054-006	Iron, Total	N/A		Water	3.70 ppm	50 mL	3700 µg/L	1	80	100			10/31/17 23:51:13	N	II
1710054-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			10/31/17 23:51:13	N	II
1710054-006	Magnesium, Total	N/A		Water	50.94 ppm	50 mL	50900 µg/L	1	300	1000			10/31/17 23:51:13	N	II
1710054-006	Nickel, Total	N/A		Water	0.01 ppm	50 mL	12 µg/L J	1	9	40			10/31/17 23:51:13	N	II
1710054-006	Potassium, Total	N/A		Water	7.97 ppm	50 mL	8000 µg/L	1	300	2000			10/31/17 23:51:13	N	II
1710054-006	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			10/31/17 23:51:13	N	II
1710054-006	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			10/31/17 23:51:13	N	II
1710054-006	Sodium, Total	N/A		Water	122.05 ppm	50 mL	122000 µg/L	1	400	1000			10/31/17 23:51:13	N	II
1710054-006	Thallium, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	6	10			10/31/17 23:51:13	N	II

F indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/V T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21710054-006	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			10/31/17 23:51:13	N	II
21710054-006	Zinc, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	7	10			10/31/17 23:51:13	N	II
21710054-008	Aluminum, Total	N/A		Water	0.49 ppm	50 mL	490 µg/L	1	100	100			11/1/17 00:01:09	N	II
21710054-008	Antimony, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			11/1/17 00:01:09	N	II
21710054-008	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:01:09	N	II
21710054-008	Barium, Total	N/A		Water	0.10 ppm	50 mL	103 µg/L	1	13	20			11/1/17 00:01:09	N	II
21710054-008	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 00:01:09	N	II
21710054-008	Boron, Total	N/A		Water	0.14 ppm	50 mL	140 µg/L J	1	80	200			11/1/17 00:01:09	N	II
21710054-008	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 00:01:09	N	II
21710054-008	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 00:01:09	N	II
21710054-008	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:01:09	N	II
21710054-008	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:01:09	N	II
21710054-008	Iron, Total	N/A		Water	0.38 ppm	50 mL	380 µg/L	1	80	100			11/1/17 00:01:09	N	II
21710054-008	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/1/17 00:01:09	N	II
21710054-008	Magnesium, Total	N/A		Water	84.14 ppm	50 mL	84100 µg/L	1	300	1000			11/1/17 00:01:09	N	II
21710054-008	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:01:09	N	II
21710054-008	Potassium, Total	N/A		Water	21.33 ppm	50 mL	21300 µg/L	1	300	2000			11/1/17 00:01:09	N	II
21710054-008	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:01:09	N	II
21710054-008	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:01:09	N	II
21710054-008	Sodium, Total	N/A		Water	86.71 ppm	50 mL	86700 µg/L	1	400	1000			11/1/17 00:01:09	N	II
21710054-008	Thallium, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	6	10			11/1/17 00:01:09	N	II
21710054-008	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:01:09	N	II
21710054-008	Zinc, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	7	10			11/1/17 00:01:09	N	II
21710054-010	Aluminum, Total	N/A		Water	0.19 ppm	50 mL	190 µg/L	1	100	100			11/1/17 00:04:28	N	II
21710054-010	Antimony, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			11/1/17 00:04:28	N	II
21710054-010	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:04:28	N	II
21710054-010	Barium, Total	N/A		Water	0.30 ppm	50 mL	301 µg/L	1	13	20			11/1/17 00:04:28	N	II
21710054-010	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 00:04:28	N	II
21710054-010	Boron, Total	N/A		Water	0.09 ppm	50 mL	90 µg/L J	1	80	200			11/1/17 00:04:28	N	II
21710054-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 00:04:28	N	II
21710054-010	Calcium, Total	N/A		Water	174.93 ppm	50 mL	175000 µg/L	1	400	1000			11/1/17 00:04:28	N	II
21710054-010	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 00:04:28	N	II
21710054-010	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	3	50			11/1/17 00:04:28	N	II
21710054-010	Copper, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:04:28	N	II
21710054-010	Iron, Total	N/A		Water	0.30 ppm	50 mL	300 µg/L	1	80	100			11/1/17 00:04:28	N	II
21710054-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/1/17 00:04:28	N	II

J indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21710054-010	Magnesium, Total	N/A		Water	32.09 ppm	50 mL	32100 µg/L	1	300	1000			11/1/17 00:04:28	N	II
21710054-010	Nickel, Total	N/A		Water	0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:04:28	N	II
21710054-010	Potassium, Total	N/A		Water	6.68 ppm	50 mL	6700 µg/L	1	300	2000			11/1/17 00:04:28	N	II
21710054-010	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:04:28	N	II
21710054-010	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:04:28	N	II
21710054-010	Sodium, Total	N/A		Water	68.82 ppm	50 mL	68800 µg/L	1	400	1000			11/1/17 00:04:28	N	II
21710054-010	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			11/1/17 00:04:28	N	II
21710054-010	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:04:28	N	II
21710054-010	Zinc, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	7	10			11/1/17 00:04:28	N	II
21710054-012	Aluminum, Total	N/A		Water	2.86 ppm	50 mL	2860 µg/L	1	100	100			11/1/17 00:07:46	N	II
21710054-012	Antimony, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			11/1/17 00:07:46	N	II
21710054-012	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:07:46	N	II
21710054-012	Barium, Total	N/A		Water	0.08 ppm	50 mL	80 µg/L	1	13	20			11/1/17 00:07:46	N	II
21710054-012	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 00:07:46	N	II
21710054-012	Boron, Total	N/A		Water	0.14 ppm	50 mL	140 µg/L J	1	80	200			11/1/17 00:07:46	N	II
21710054-012	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 00:07:46	N	II
21710054-012	Chromium, Total	N/A		Water	0.01 ppm	50 mL	6 µg/L J	1	3	10			11/1/17 00:07:46	N	II
21710054-012	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:07:46	N	II
21710054-012	Copper, Total	N/A		Water	0.01 ppm	50 mL	14 µg/L J	1	10	20			11/1/17 00:07:46	N	II
21710054-012	Iron, Total	N/A		Water	1.82 ppm	50 mL	1820 µg/L	1	80	100			11/1/17 00:07:46	N	II
21710054-012	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/1/17 00:07:46	N	II
21710054-012	Magnesium, Total	N/A		Water	87.75 ppm	50 mL	87700 µg/L	1	300	1000			11/1/17 00:07:46	N	II
21710054-012	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:07:46	N	II
21710054-012	Potassium, Total	N/A		Water	52.45 ppm	50 mL	52500 µg/L	1	300	2000			11/1/17 00:07:46	N	II
21710054-012	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:07:46	N	II
21710054-012	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:07:46	N	II
21710054-012	Sodium, Total	N/A		Water	24.78 ppm	50 mL	24800 µg/L	1	400	1000			11/1/17 00:07:46	N	II
21710054-012	Thallium, Total	N/A		Water	0.01 ppm	50 mL	9 µg/L J	1	6	10			11/1/17 00:07:46	N	II
21710054-012	Vanadium, Total	N/A		Water	0.01 ppm	50 mL	5 µg/L J	1	3	50			11/1/17 00:07:46	N	II
21710054-012	Zinc, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L J	1	7	10			11/1/17 00:07:46	N	II
21710054-013	Aluminum, Total	N/A		Water	0.23 ppm	50 mL	230 µg/L	1	100	100			11/1/17 00:11:05	N	II
21710054-013	Antimony, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	8	10			11/1/17 00:11:05	N	II
21710054-013	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:11:05	N	II
21710054-013	Barium, Total	N/A		Water	0.21 ppm	50 mL	210 µg/L	1	13	20			11/1/17 00:11:05	N	II
21710054-013	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 00:11:05	N	II
21710054-013	Boron, Total	N/A		Water	0.05 ppm	50 mL	200 µg/L U	1	80	200			11/1/17 00:11:05	N	II

E indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Cd T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21710054-013	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 00:11:05	N	II
21710054-013	Calcium, Total	N/A		Water	180.25 ppm	50 mL	180000 µg/L	1	400	1000			11/1/17 00:11:05	N	II
21710054-013	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 00:11:05	N	II
21710054-013	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	5 µg/L J	1	3	50			11/1/17 00:11:05	N	II
21710054-013	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:11:05	N	II
21710054-013	Iron, Total	N/A		Water	0.27 ppm	50 mL	270 µg/L	1	80	100			11/1/17 00:11:05	N	II
21710054-013	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/1/17 00:11:05	N	II
21710054-013	Magnesium, Total	N/A		Water	29.38 ppm	50 mL	29400 µg/L	1	300	1000			11/1/17 00:11:05	N	II
21710054-013	Nickel, Total	N/A		Water	0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:11:05	N	II
21710054-013	Potassium, Total	N/A		Water	4.98 ppm	50 mL	5000 µg/L	1	300	2000			11/1/17 00:11:05	N	II
21710054-013	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:11:05	N	II
21710054-013	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:11:05	N	II
21710054-013	Sodium, Total	N/A		Water	43.21 ppm	50 mL	43200 µg/L	1	400	1000			11/1/17 00:11:05	N	II
21710054-013	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			11/1/17 00:11:05	N	II
21710054-013	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:11:05	N	II
21710054-013	Zinc, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	7	10			11/1/17 00:11:05	N	II
21710113-001	Aluminum, Total	N/A		Water	1.12 ppm	50 mL	1120 µg/L	1	100	100			11/1/17 00:14:23	N	IV
21710113-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 00:14:23	N	IV
21710113-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:14:23	N	IV
21710113-001	Barium, Total	N/A		Water	0.02 ppm	50 mL	24 µg/L	1	13	20			11/1/17 00:14:23	N	IV
21710113-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 00:14:23	N	IV
21710113-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 00:14:23	N	IV
21710113-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 00:14:23	N	IV
21710113-001	Cobalt, Total	N/A		Water	0.01 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:14:23	N	IV
21710113-001	Copper, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:14:23	N	IV
21710113-001	Iron, Total	N/A		Water	4.11 ppm	50 mL	4110 µg/L	1	80	100			11/1/17 00:14:23	N	IV
21710113-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/1/17 00:14:23	N	IV
21710113-001	Magnesium, Total	N/A		Water	77.68 ppm	50 mL	77700 µg/L	1	300	1000			11/1/17 00:14:23	N	IV
21710113-001	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:14:23	N	IV
21710113-001	Potassium, Total	N/A		Water	18.67 ppm	50 mL	18700 µg/L	1	300	2000			11/1/17 00:14:23	N	IV
21710113-001	Selenium, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:14:23	N	IV
21710113-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:14:23	N	IV
21710113-001	Sodium, Total	N/A		Water	35.12 ppm	50 mL	35100 µg/L	1	400	1000			11/1/17 00:14:23	N	IV
21710113-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:14:23	N	IV
21710113-001	Zinc, Total	N/A		Water	0.02 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 00:14:23	N	IV
21710113-003	Aluminum, Dissolved	N/A		Water	224.58 ppm	50 mL	225000 µg/L	1	100	100			11/1/17 00:17:42	N	IV

f indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Sb D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21710113-003	Antimony, Dissolved	N/A		Water	-0.03 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 00:17:42	N	IV
21710113-003	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:17:42	N	IV
21710113-003	Barium, Dissolved	N/A		Water	0.02 ppm	50 mL	25 µg/L	1	13	20			11/1/17 00:17:42	N	IV
21710113-003	Beryllium, Dissolved	N/A		Water	0.01 ppm	50 mL	14.3 µg/L	1	0.7	3.0			11/1/17 00:17:42	N	IV
21710113-003	Cadmium, Dissolved	N/A		Water	0.01 ppm	50 mL	14.5 µg/L	1	0.9	5.0			11/1/17 00:17:42	N	IV
~~21710113-003~~	~~Calcium, Dissolved~~	~~N/A~~		~~Water~~	~~412.70 ppm~~	~~50 mL~~	~~413000 µg/L~~	~~1~~	~~400~~	~~1000~~	CK 11/14/17		11/1/17 00:17:42	N	IV
21710113-003	Chromium, Dissolved	N/A		Water	0.01 ppm	50 mL	14 µg/L	1	3	10			11/1/17 00:17:42	N	IV
21710113-003	Cobalt, Dissolved	N/A		Water	0.02 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:17:42	N	IV
21710113-003	Copper, Dissolved	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:17:42	N	IV
21710113-003	Nickel, Dissolved	N/A		Water	0.04 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:17:42	N	IV
21710113-003	Selenium, Dissolved	N/A		Water	0.03 ppm	50 mL	31 µg/L	1	4	10			11/1/17 00:17:42	N	IV
21710113-003	Silver, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:17:42	N	IV
21710113-003	Sodium, Dissolved	N/A		Water	101.37 ppm	50 mL	101000 µg/L	1	400	1000			11/1/17 00:17:42	N	IV
21710113-003	Vanadium, Dissolved	N/A		Water	0.07 ppm	50 mL	69 µg/L	1	3	50			11/1/17 00:17:42	N	IV
21710113-003	Zinc, Dissolved	N/A		Water	0.21 ppm	50 mL	211 µg/L	1	7	20			11/1/17 00:17:42	N	IV
21710113-002	Aluminum, Total	N/A		Water	214.34 ppm	50 mL	214000 µg/L	1	100	100			11/1/17 00:21:00	N	IV
21710113-002	Antimony, Total	N/A		Water	-0.03 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 00:21:00	N	IV
21710113-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:21:00	N	IV
21710113-002	Barium, Total	N/A		Water	0.07 ppm	50 mL	71 µg/L	1	13	20			11/1/17 00:21:00	N	IV
21710113-002	Beryllium, Total	N/A		Water	0.01 ppm	50 mL	12.8 µg/L	1	0.7	3.0			11/1/17 00:21:00	N	IV
21710113-002	Cadmium, Total	N/A		Water	0.01 ppm	50 mL	12.4 µg/L	1	0.9	5.0			11/1/17 00:21:00	N	IV
~~21710113-002~~	~~Calcium, Total~~	~~N/A~~		~~Water~~	~~398.20 ppm~~	~~50 mL~~	~~398000 µg/L~~	~~1~~	~~400~~	~~1000~~	CK 11/14/17		11/1/17 00:21:00	N	IV
21710113-002	Chromium, Total	N/A		Water	0.02 ppm	50 mL	23 µg/L	1	3	10			11/1/17 00:21:00	N	IV
21710113-002	Cobalt, Total	N/A		Water	0.03 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:21:00	N	IV
21710113-002	Copper, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:21:00	N	IV
21710113-002	Lead, Total	N/A		Water	0.02 ppm	50 mL	50 µg/L U	1	4	50			11/1/17 00:21:00	N	IV
21710113-002	Magnesium, Total	N/A		Water	478.46 ppm	50 mL	478000 µg/L	1	300	1000			11/1/17 00:21:00	N	IV
21710113-002	Nickel, Total	N/A		Water	0.04 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:21:00	N	IV
21710113-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:21:00	N	IV
21710113-002	Sodium, Total	N/A		Water	93.07 ppm	50 mL	93100 µg/L	1	400	1000			11/1/17 00:21:00	N	IV
21710113-002	Vanadium, Total	N/A		Water	0.08 ppm	50 mL	81 µg/L	1	3	50			11/1/17 00:21:00	N	IV
21710113-002	Zinc, Total	N/A		Water	0.29 ppm	50 mL	294 µg/L	1	7	20			11/1/17 00:21:00	N	IV
21710113-004	Aluminum, Total	N/A		Water	217.05 ppm	50 mL	217000 µg/L	1	100	100			11/1/17 00:24:19	N	IV
21710113-004	Antimony, Total	N/A		Water	-0.03 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 00:24:19	N	IV
21710113-004	Arsenic, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:24:19	N	IV
21710113-004	Barium, Total	N/A		Water	0.08 ppm	50 mL	76 µg/L	1	13	20			11/1/17 00:24:19	N	IV

‡ indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Be T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710113-004	Beryllium, Total	N/A		Water	0.01 ppm	50 mL	12.9 µg/L	1	0.7	3.0			11/1/17 00:24:19	N	IV
1710113-004	Cadmium, Total	N/A		Water	0.01 ppm	50 mL	12.5 µg/L	1	0.9	5.0			11/1/17 00:24:19	N	IV
1710113-004	Chromium, Total	N/A		Water	0.02 ppm	50 mL	24 µg/L	1	3	10			11/1/17 00:24:19	N	IV
1710113-004	Cobalt, Total	N/A		Water	0.03 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:24:19	N	IV
1710113-004	Copper, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:24:19	N	IV
1710113-004	Lead, Total	N/A		Water	0.03 ppm	50 mL	50 µg/L U	1	4	50			11/1/17 00:24:19	N	IV
1710113-004	Magnesium, Total	N/A		Water	481.07 ppm	50 mL	481000 µg/L	1	300	1000			11/1/17 00:24:19	N	IV
1710113-004	Nickel, Total	N/A		Water	0.03 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:24:19	N	IV
1710113-004	Selenium, Total	N/A		Water	0.03 ppm	50 mL	29 µg/L	1	4	10			11/1/17 00:24:19	N	IV
1710113-004	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:24:19	N	IV
1710113-004	Sodium, Total	N/A		Water	92.51 ppm	50 mL	92500 µg/L	1	400	1000			11/1/17 00:24:19	N	IV
1710113-004	Vanadium, Total	N/A		Water	0.08 ppm	50 mL	82 µg/L	1	3	50			11/1/17 00:24:19	N	IV
1710113-004	Zinc, Total	N/A		Water	0.31 ppm	50 mL	306 µg/L	1	7	20			11/1/17 00:24:19	N	IV
1710113-005	Aluminum, Dissolved	N/A		Water	176.03 ppm	50 mL	176000 µg/L	1	100	100			11/1/17 00:27:38	N	IV
1710113-005	Antimony, Dissolved	N/A		Water	-0.03 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 00:27:38	N	IV
1710113-005	Arsenic, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:27:38	N	IV
1710113-005	Barium, Dissolved	N/A		Water	0.03 ppm	50 mL	29 µg/L	1	13	20			11/1/17 00:27:38	N	IV
1710113-005	Beryllium, Dissolved	N/A		Water	0.01 ppm	50 mL	11.2 µg/L	1	0.7	3.0			11/1/17 00:27:38	N	IV
1710113-005	Cadmium, Dissolved	N/A		Water	0.01 ppm	50 mL	11.0 µg/L	1	0.9	5.0			11/1/17 00:27:38	N	IV
1710113-005	Chromium, Dissolved	N/A		Water	0.01 ppm	50 mL	11 µg/L	1	3	10			11/1/17 00:27:38	N	IV
1710113-005	Cobalt, Dissolved	N/A		Water	0.02 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:27:38	N	IV
1710113-005	Copper, Dissolved	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:27:38	N	IV
1710113-005	Lead, Dissolved	N/A		Water	0.01 ppm	50 mL	50 µg/L U	1	4	50			11/1/17 00:27:38	N	IV
1710113-005	Magnesium, Dissolved	N/A		Water	470.15 ppm	50 mL	470000 µg/L	1	300	1000			11/1/17 00:27:38	N	IV
1710113-005	Nickel, Dissolved	N/A		Water	0.04 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:27:38	N	IV
1710113-005	Silver, Dissolved	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:27:38	N	IV
1710113-005	Sodium, Dissolved	N/A		Water	93.19 ppm	50 mL	93200 µg/L	1	400	1000			11/1/17 00:27:38	N	IV
1710113-005	Vanadium, Dissolved	N/A		Water	0.06 ppm	50 mL	59 µg/L	1	3	50			11/1/17 00:27:38	N	IV
1710113-005	Zinc, Dissolved	N/A		Water	0.20 ppm	50 mL	195 µg/L	1	7	20			11/1/17 00:27:38	N	IV
1710113-006	Aluminum, Total	N/A		Water	199.87 ppm	50 mL	200000 µg/L	1	100	100			11/1/17 00:30:57	N	IV
1710113-006	Antimony, Total	N/A		Water	0.07 ppm	50 mL	69 µg/L	1	8	60			11/1/17 00:30:57	N	IV
1710113-006	Arsenic, Total	N/A		Water	0.58 ppm	50 mL	581 µg/L	1	4	10			11/1/17 00:30:57	N	IV
1710113-006	Barium, Total	N/A		Water	4.22 ppm	50 mL	4220 µg/L	1	13	20			11/1/17 00:30:57	N	IV
1710113-006	Beryllium, Total	N/A		Water	0.01 ppm	50 mL	6.9 µg/L	1	0.7	3.0			11/1/17 00:30:57	N	IV
1710113-006	Cadmium, Total	N/A		Water	0.01 ppm	50 mL	7.9 µg/L	1	0.9	5.0			11/1/17 00:30:57	N	IV
1710113-006	Chromium, Total	N/A		Water	0.37 ppm	50 mL	375 µg/L	1	3	10			11/1/17 00:30:57	N	IV

E indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Co T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710113-006	Cobalt, Total	N/A		Water	0.05 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:30:57	N	IV
1710113-006	Copper, Total	N/A		Water	1.08 ppm	50 mL	1080 µg/L	1	10	20			11/1/17 00:30:57	N	IV
1710113-006	Magnesium, Total	N/A		Water	227.12 ppm	50 mL	227000 µg/L	1	300	1000			11/1/17 00:30:57	N	IV
1710113-006	Nickel, Total	N/A		Water	0.18 ppm	50 mL	177 µg/L	1	9	40			11/1/17 00:30:57	N	IV
1710113-006	Selenium, Total	N/A		Water	0.03 ppm	50 mL	27 µg/L	1	4	10			11/1/17 00:30:57	N	IV
1710113-006	Silver, Total	N/A		Water	0.01 ppm	50 mL	14 µg/L	1	2	10			11/1/17 00:30:57	N	IV
1710113-006	Sodium, Total	N/A		Water	39.06 ppm	50 mL	39100 µg/L	1	400	1000			11/1/17 00:30:57	N	IV
1710113-006	Thallium, Total	N/A		Water	0.04 ppm	50 mL	39 µg/L	1	6	10			11/1/17 00:30:57	N	IV
1710113-006	Vanadium, Total	N/A		Water	0.40 ppm	50 mL	405 µg/L	1	3	50			11/1/17 00:30:57	N	IV
1710113-006	Zinc, Total	N/A		Water	3.15 ppm	50 mL	3150 µg/L	1	7	20			11/1/17 00:30:57	N	IV
1710113-007	Aluminum, Dissolved	N/A		Water	88.99 ppm	50 mL	89000 µg/L	1	100	100			11/1/17 00:40:54	N	IV
1710113-007	Antimony, Dissolved	N/A		Water	0.05 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 00:40:54	N	IV
1710113-007	Arsenic, Dissolved	N/A		Water	0.35 ppm	50 mL	347 µg/L	1	4	10			11/1/17 00:40:54	N	IV
1710113-007	Barium, Dissolved	N/A		Water	1.97 ppm	50 mL	1970 µg/L	1	13	20			11/1/17 00:40:54	N	IV
1710113-007	Beryllium, Dissolved	N/A		Water	0.00 ppm	50 mL	3.0 µg/L	1	0.7	3.0			11/1/17 00:40:54	N	IV
1710113-007	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 00:40:54	N	IV
1710113-007	Chromium, Dissolved	N/A		Water	0.16 ppm	50 mL	163 µg/L	1	3	10			11/1/17 00:40:54	N	IV
1710113-007	Cobalt, Dissolved	N/A		Water	0.02 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:40:54	N	IV
1710113-007	Copper, Dissolved	N/A		Water	0.49 ppm	50 mL	487 µg/L	1	10	20			11/1/17 00:40:54	N	IV
1710113-007	Magnesium, Dissolved	N/A		Water	210.31 ppm	50 mL	210000 µg/L	1	300	1000			11/1/17 00:40:54	N	IV
1710113-007	Nickel, Dissolved	N/A		Water	0.08 ppm	50 mL	78 µg/L	1	9	40			11/1/17 00:40:54	N	IV
1710113-007	Potassium, Dissolved	N/A		Water	89.25 ppm	50 mL	89300 µg/L	1	300	2000			11/1/17 00:40:54	N	IV
1710113-007	Silver, Dissolved	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:40:54	N	IV
1710113-007	Sodium, Dissolved	N/A		Water	39.18 ppm	50 mL	39200 µg/L	1	400	1000			11/1/17 00:40:54	N	IV
1710113-007	Thallium, Dissolved	N/A		Water	0.03 ppm	50 mL	26 µg/L	1	6	10			11/1/17 00:40:54	N	IV
1710113-007	Vanadium, Dissolved	N/A		Water	0.18 ppm	50 mL	181 µg/L	1	3	50			11/1/17 00:40:54	N	IV
1710113-007	Zinc, Dissolved	N/A		Water	1.44 ppm	50 mL	1440 µg/L	1	7	20			11/1/17 00:40:54	N	IV
1710200-001	Aluminum, Total	N/A		Water	0.05 ppm	50 mL	100 µg/L U	1	100	100			11/1/17 00:47:33	N	II
1710200-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 00:47:33	N	II
1710200-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:47:33	N	II
1710200-001	Barium, Total	N/A		Water	0.23 ppm	50 mL	234 µg/L	1	13	20			11/1/17 00:47:33	N	II
1710200-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 00:47:33	N	II
1710200-001	Boron, Total	N/A		Water	1.17 ppm	50 mL	1170 µg/L	1	80	200			11/1/17 00:47:33	N	II
1710200-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 00:47:33	N	II
1710200-001	Calcium, Total	N/A		Water	109.26 ppm	50 mL	109000 µg/L	1	400	1000			11/1/17 00:47:33	N	II
1710200-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 00:47:33	N	II

' indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568345 **Method/Testcode:** 6010C/Co T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710200-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:47:33	N	II
1710200-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:47:33	N	II
1710200-001	Iron, Total	N/A		Water	3.17 ppm	50 mL	3170 µg/L	1	80	100			11/1/17 00:47:33	N	II
1710200-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/1/17 00:47:33	N	II
1710200-001	Magnesium, Total	N/A		Water	39.45 ppm	50 mL	39500 µg/L	1	300	1000			11/1/17 00:47:33	N	II
1710200-001	Nickel, Total	N/A		Water	0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:47:33	N	II
1710200-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:47:33	N	II
1710200-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:47:33	N	II
1710200-001	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			11/1/17 00:47:33	N	II
1710200-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:47:33	N	II
1710200-001	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 00:47:33	N	II
1710200-003	Aluminum, Total	N/A		Water	0.08 ppm	50 mL	100 µg/L U	1	100	100			11/1/17 00:50:52	N	II
1710200-003	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 00:50:52	N	II
1710200-003	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:50:52	N	II
1710200-003	Barium, Total	N/A		Water	0.04 ppm	50 mL	36 µg/L	1	13	20			11/1/17 00:50:52	N	II
1710200-003	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 00:50:52	N	II
1710200-003	Boron, Total	N/A		Water	0.03 ppm	50 mL	200 µg/L U	1	80	200			11/1/17 00:50:52	N	II
1710200-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 00:50:52	N	II
1710200-003	Calcium, Total	N/A		Water	113.81 ppm	50 mL	114000 µg/L	1	400	1000			11/1/17 00:50:52	N	II
1710200-003	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 00:50:52	N	II
1710200-003	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:50:52	N	II
1710200-003	Copper, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 00:50:52	N	II
1710200-003	Iron, Total	N/A		Water	0.07 ppm	50 mL	100 µg/L U	1	80	100			11/1/17 00:50:52	N	II
1710200-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/1/17 00:50:52	N	II
1710200-003	Magnesium, Total	N/A		Water	17.23 ppm	50 mL	17200 µg/L	1	300	1000			11/1/17 00:50:52	N	II
1710200-003	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 00:50:52	N	II
1710200-003	Potassium, Total	N/A		Water	4.36 ppm	50 mL	4400 µg/L	1	300	2000			11/1/17 00:50:52	N	II
1710200-003	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 00:50:52	N	II
1710200-003	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 00:50:52	N	II
1710200-003	Sodium, Total	N/A		Water	3.85 ppm	50 mL	3800 µg/L	1	400	1000			11/1/17 00:50:52	N	II
1710200-003	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			11/1/17 00:50:52	N	II
1710200-003	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/1/17 00:50:52	N	II
1710200-003	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 00:50:52	N	II

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568348 **Method/Testcode:** 6010C/Sb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
2Q1711235-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 01:17:22	N	IV
2Q1711235-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			11/1/17 01:17:22	N	IV
2Q1711235-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 01:17:22	N	IV
2Q1711235-01	Cadmium, Dissolved	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:17:22	N	IV
2Q1711235-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:17:22	N	IV
2Q1711235-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 01:17:22	N	IV
2Q1711235-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 01:17:22	N	IV
2Q1711235-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			11/1/17 01:17:22	N	IV
2Q1711235-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			11/1/17 01:17:22	N	IV
2Q1711235-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			11/1/17 01:17:22	N	IV
2Q1711235-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 01:17:22	N	IV
2Q1711235-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 01:17:22	N	IV
2Q1711235-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 01:17:22	N	IV
2Q1711235-02	Antimony, Total	LCS		Water	0.51 ppm	50 mL	510 µg/L	1	8	60	102		11/1/17 01:20:41	N	IV
2Q1711235-02	Barium, Total	LCS		Water	2.15 ppm	50 mL	2150 µg/L	1	13	20	108		11/1/17 01:20:41	N	IV
2Q1711235-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	51.8 µg/L	1	0.7	3.0	104		11/1/17 01:20:41	N	IV
2Q1711235-02	Cadmium, Dissolved	LCS		Water	0.05 ppm	50 mL	54.0 µg/L	1	0.9	5.0	108		11/1/17 01:20:41	N	IV
2Q1711235-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	54.0 µg/L	1	0.9	5.0	108		11/1/17 01:20:41	N	IV
2Q1711235-02	Chromium, Total	LCS		Water	0.21 ppm	50 mL	208 µg/L	1	3	10	104		11/1/17 01:20:41	N	IV
2Q1711235-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	241 µg/L	1	10	20	96		11/1/17 01:20:41	N	IV
2Q1711235-02	Iron, Total	LCS		Water	1.02 ppm	50 mL	1020 µg/L	1	80	100	102		11/1/17 01:20:41	N	IV
2Q1711235-02	Magnesium, Total	LCS		Water	2.08 ppm	50 mL	2080 µg/L	1	300	1000	104		11/1/17 01:20:41	N	IV
2Q1711235-02	Manganese, Total	LCS		Water	0.51 ppm	50 mL	513 µg/L	1	5	10	103		11/1/17 01:20:41	N	IV
2Q1711235-02	Nickel, Total	LCS		Water	0.53 ppm	50 mL	532 µg/L	1	9	40	106		11/1/17 01:20:41	N	IV
2Q1711235-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	50.5 µg/L	1	2	10	101		11/1/17 01:20:41	N	IV
2Q1711235-02	Zinc, Total	LCS		Water	0.53 ppm	50 mL	533 µg/L	1	7	20	107		11/1/17 01:20:41	N	IV
21710073-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 01:23:59	N	IV
21710073-001	Barium, Total	N/A		Water	0.05 ppm	50 mL	52 µg/L	1	13	20			11/1/17 01:23:59	N	IV
21710073-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 01:23:59	N	IV
21710073-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:23:59	N	IV
21710073-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	3	10			11/1/17 01:23:59	N	IV
21710073-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 01:23:59	N	IV
21710073-001	Iron, Total	N/A		Water	0.36 ppm	50 mL	360 µg/L	1	80	100			11/1/17 01:23:59	N	IV
21710073-001	Magnesium, Total	N/A		Water	3.54 ppm	50 mL	3500 µg/L	1	300	1000			11/1/17 01:23:59	N	IV
21710073-001	Manganese, Total	N/A		Water	0.40 ppm	50 mL	401 µg/L	1	5	10			11/1/17 01:23:59	N	IV
21710073-001	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 01:23:59	N	IV

f indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568348 **Method/Testcode:** 6010C/Ag T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21710073-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 01:23:59	N	IV
21710073-001	Zinc, Total	N/A		Water	0.01 ppm	50 mL	14 µg/L J	1	7	20			11/1/17 01:23:59	N	IV
21710073-002	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:27:18	N	IV
21710073-003	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 01:30:37	N	IV
21710073-003	Barium, Total	N/A		Water	0.06 ppm	50 mL	64 µg/L	1	13	20			11/1/17 01:30:37	N	IV
21710073-003	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 01:30:37	N	IV
21710073-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:30:37	N	IV
21710073-003	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 01:30:37	N	IV
21710073-003	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 01:30:37	N	IV
21710073-003	Iron, Total	N/A		Water	19.26 ppm	50 mL	19300 µg/L	1	80	100			11/1/17 01:30:37	N	IV
21710073-003	Magnesium, Total	N/A		Water	10.51 ppm	50 mL	10500 µg/L	1	300	1000			11/1/17 01:30:37	N	IV
21710073-003	Manganese, Total	N/A		Water	0.65 ppm	50 mL	652 µg/L	1	5	10			11/1/17 01:30:37	N	IV
21710073-003	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 01:30:37	N	IV
21710073-003	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 01:30:37	N	IV
21710073-003	Zinc, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	7	20			11/1/17 01:30:37	N	IV
21710073-004	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:33:56	N	IV
21710073-005	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 01:37:15	N	IV
21710073-005	Barium, Total	N/A		Water	0.08 ppm	50 mL	77 µg/L	1	13	20			11/1/17 01:37:15	N	IV
21710073-005	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 01:37:15	N	IV
21710073-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:37:15	N	IV
21710073-005	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 01:37:15	N	IV
21710073-005	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 01:37:15	N	IV
21710073-005	Iron, Total	N/A		Water	5.74 ppm	50 mL	5740 µg/L	1	80	100			11/1/17 01:37:15	N	IV
21710073-005	Magnesium, Total	N/A		Water	7.83 ppm	50 mL	7800 µg/L	1	300	1000			11/1/17 01:37:15	N	IV
21710073-005	Manganese, Total	N/A		Water	0.70 ppm	50 mL	702 µg/L	1	5	10			11/1/17 01:37:15	N	IV
21710073-005	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 01:37:15	N	IV
21710073-005	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 01:37:15	N	IV
21710073-005	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 01:37:15	N	IV
21710073-006	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:40:34	N	IV
21710073-007	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 01:43:53	N	IV
21710073-007	Barium, Total	N/A		Water	0.03 ppm	50 mL	34 µg/L	1	13	20			11/1/17 01:43:53	N	IV
21710073-007	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 01:43:53	N	IV
21710073-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:43:53	N	IV
21710073-007	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 01:43:53	N	IV
21710073-007	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 01:43:53	N	IV
21710073-007	Iron, Total	N/A		Water	0.31 ppm	50 mL	310 µg/L	1	80	100			11/1/17 01:43:53	N	IV

4 indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568348 **Method/Testcode:** 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1710073-007	Magnesium, Total	N/A		Water	5.25 ppm	50 mL	5300 µg/L	1	300	1000			11/1/17 01:43:53	N	IV
R1710073-007	Manganese, Total	N/A		Water	0.96 ppm	50 mL	960 µg/L	1	5	10			11/1/17 01:43:53	N	IV
R1710073-007	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 01:43:53	N	IV
R1710073-007	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 01:43:53	N	IV
R1710073-007	Zinc, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	7	20			11/1/17 01:43:53	N	IV
R1710073-008	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:47:12	N	IV
R1710073-009	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 01:57:08	N	IV
R1710073-009	Barium, Total	N/A		Water	4.07 ppm	50 mL	4070 µg/L	1	13	20			11/1/17 01:57:08	N	IV
R1710073-009	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 01:57:08	N	IV
R1710073-009	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 01:57:08	N	IV
R1710073-009	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 01:57:08	N	IV
R1710073-009	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 01:57:08	N	IV
R1710073-009	Magnesium, Total	N/A		Water	15.09 ppm	50 mL	15100 µg/L	1	300	1000			11/1/17 01:57:08	N	IV
R1710073-009	Manganese, Total	N/A		Water	0.29 ppm	50 mL	290 µg/L	1	5	10			11/1/17 01:57:08	N	IV
R1710073-009	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 01:57:08	N	IV
R1710073-009	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 01:57:08	N	IV
R1710073-009	Zinc, Total	N/A		Water	0.01 ppm	50 mL	14 µg/L J	1	7	20			11/1/17 01:57:08	N	IV
R1710073-010	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 02:00:28	N	IV
R1710073-013	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 02:03:46	Y	IV
R1710073-013	Barium, Total	N/A		Water	0.17 ppm	50 mL	169 µg/L	1	13	20			11/1/17 02:03:46	Y	IV
R1710073-013	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 02:03:46	Y	IV
R1710073-013	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 02:03:46	Y	IV
R1710073-013	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 02:03:46	Y	IV
R1710073-013	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 02:03:46	Y	IV
R1710073-013	Iron, Total	N/A		Water	0.07 ppm	50 mL	100 µg/L U	1	80	100			11/1/17 02:03:46	Y	IV
R1710073-013	Magnesium, Total	N/A		Water	9.51 ppm	50 mL	9500 µg/L	1	300	1000			11/1/17 02:03:46	Y	IV
R1710073-013	Manganese, Total	N/A		Water	0.05 ppm	50 mL	51 µg/L	1	5	10			11/1/17 02:03:46	Y	IV
R1710073-013	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 02:03:46	Y	IV
R1710073-013	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 02:03:46	Y	IV
R1710073-013	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 02:03:46	Y	IV
RQ1711235-03	Antimony, Total	MS	R1710073-013	Water	0.53 ppm	50 mL	530 µg/L	1	8	60	106		11/1/17 02:07:04	N	IV
RQ1711235-03	Barium, Total	MS	R1710073-013	Water	2.31 ppm	50 mL	2310 µg/L	1	13	20	107		11/1/17 02:07:04	N	IV
RQ1711235-03	Beryllium, Total	MS	R1710073-013	Water	0.05 ppm	50 mL	52.8 µg/L	1	0.7	3.0	106		11/1/17 02:07:04	N	IV
RQ1711235-03	Cadmium, Total	MS	R1710073-013	Water	0.05 ppm	50 mL	53.9 µg/L	1	0.9	5.0	108		11/1/17 02:07:04	N	IV
RQ1711235-03	Chromium, Total	MS	R1710073-013	Water	0.21 ppm	50 mL	208 µg/L	1	3	10	104		11/1/17 02:07:04	N	IV
RQ1711235-03	Copper, Total	MS	R1710073-013	Water	0.25 ppm	50 mL	254 µg/L	1	10	20	102		11/1/17 02:07:04	N	IV

E indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568348 **Method/Testcode:** 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711235-03	Iron, Total	MS	R1710073-013	Water	1.04 ppm	50 mL	1040 µg/L	1	80	100	104		11/1/17 02:07:04	N	IV
RQ1711235-03	Magnesium, Total	MS	R1710073-013	Water	11.83 ppm	50 mL	11800 µg/L	1	300	1000	116		11/1/17 02:07:04	N	IV
RQ1711235-03	Manganese, Total	MS	R1710073-013	Water	0.56 ppm	50 mL	564 µg/L	1	5	10	103		11/1/17 02:07:04	N	IV
RQ1711235-03	Nickel, Total	MS	R1710073-013	Water	0.53 ppm	50 mL	532 µg/L	1	9	40	106		11/1/17 02:07:04	N	IV
RQ1711235-03	Silver, Total	MS	R1710073-013	Water	0.05 ppm	50 mL	52 µg/L	1	2	10	105		11/1/17 02:07:04	N	IV
RQ1711235-03	Zinc, Total	MS	R1710073-013	Water	0.55 ppm	50 mL	550 µg/L	1	7	20	110		11/1/17 02:07:04	N	IV
RQ1711235-04	Antimony, Total	DMS	R1710073-013	Water	0.52 ppm	50 mL	519 µg/L	1	8	60	104	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Barium, Total	DMS	R1710073-013	Water	2.26 ppm	50 mL	2260 µg/L	1	13	20	104	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Beryllium, Total	DMS	R1710073-013	Water	0.05 ppm	50 mL	52.0 µg/L	1	0.7	3.0	104	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Cadmium, Total	DMS	R1710073-013	Water	0.05 ppm	50 mL	52.9 µg/L	1	0.9	5.0	106	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Chromium, Total	DMS	R1710073-013	Water	0.20 ppm	50 mL	204 µg/L	1	3	10	102	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Copper, Total	DMS	R1710073-013	Water	0.25 ppm	50 mL	250 µg/L	1	10	20	100	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Iron, Total	DMS	R1710073-013	Water	1.01 ppm	50 mL	1010 µg/L	1	80	100	101	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Magnesium, Total	DMS	R1710073-013	Water	11.54 ppm	50 mL	11500 µg/L	1	300	1000	101	3	11/1/17 02:10:22	N	IV
RQ1711235-04	Manganese, Total	DMS	R1710073-013	Water	0.55 ppm	50 mL	553 µg/L	1	5	10	100	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Nickel, Total	DMS	R1710073-013	Water	0.52 ppm	50 mL	520 µg/L	1	9	40	104	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Silver, Total	DMS	R1710073-013	Water	0.05 ppm	50 mL	51 µg/L	1	2	10	102	2	11/1/17 02:10:22	N	IV
RQ1711235-04	Zinc, Total	DMS	R1710073-013	Water	0.54 ppm	50 mL	536 µg/L	1	7	20	107	2	11/1/17 02:10:22	N	IV
R1710073-014	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 02:20:18	Y	IV
RQ1711235-05	Cadmium, Dissolved	MS	R1710073-014	Water	0.05 ppm	50 mL	52.6 µg/L	1	0.9	5.0	105		11/1/17 02:23:37	N	IV
RQ1711235-06	Cadmium, Dissolved	DMS	R1710073-014	Water	0.05 ppm	50 mL	52.8 µg/L	1	0.9	5.0	106	<1	11/1/17 02:26:56	N	IV
R1710073-015	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 02:43:31	N	IV
R1710073-015	Barium, Total	N/A		Water	0.15 ppm	50 mL	148 µg/L	1	13	20			11/1/17 02:43:31	N	IV
R1710073-015	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 02:43:31	N	IV
R1710073-015	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 02:43:31	N	IV
R1710073-015	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 02:43:31	N	IV
R1710073-015	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 02:43:31	N	IV
R1710073-015	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			11/1/17 02:43:31	N	IV
R1710073-015	Magnesium, Total	N/A		Water	5.42 ppm	50 mL	5400 µg/L	1	300	1000			11/1/17 02:43:31	N	IV
R1710073-015	Manganese, Total	N/A		Water	0.71 ppm	50 mL	712 µg/L	1	5	10			11/1/17 02:43:31	N	IV
R1710073-015	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 02:43:31	N	IV
R1710073-015	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 02:43:31	N	IV
R1710073-015	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 02:43:31	N	IV
R1710073-016	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 02:46:49	N	IV
R1710073-017	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 02:50:08	N	IV
R1710073-017	Barium, Total	N/A		Water	0.06 ppm	50 mL	60 µg/L	1	13	20			11/1/17 02:50:08	N	IV

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568348 **Method/Testcode:** 6010C/Be T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21710073-017	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 02:50:08	N	IV
21710073-017	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 02:50:08	N	IV
21710073-017	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 02:50:08	N	IV
21710073-017	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 02:50:08	N	IV
21710073-017	Iron, Total	N/A		Water	11.63 ppm	50 mL	11600 µg/L	1	80	100			11/1/17 02:50:08	N	IV
21710073-017	Magnesium, Total	N/A		Water	10.13 ppm	50 mL	10100 µg/L	1	300	1000			11/1/17 02:50:08	N	IV
21710073-017	Manganese, Total	N/A		Water	0.45 ppm	50 mL	449 µg/L	1	5	10			11/1/17 02:50:08	N	IV
21710073-017	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 02:50:08	N	IV
21710073-017	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 02:50:08	N	IV
21710073-017	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 02:50:08	N	IV
21710073-018	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 02:53:26	N	IV
21710073-019	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 02:56:45	N	IV
21710073-019	Barium, Total	N/A		Water	0.02 ppm	50 mL	22 µg/L	1	13	20			11/1/17 02:56:45	N	IV
21710073-019	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 02:56:45	N	IV
21710073-019	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 02:56:45	N	IV
21710073-019	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 02:56:45	N	IV
21710073-019	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 02:56:45	N	IV
21710073-019	Iron, Total	N/A		Water	12.26 ppm	50 mL	12300 µg/L	1	80	100			11/1/17 02:56:45	N	IV
21710073-019	Magnesium, Total	N/A		Water	9.41 ppm	50 mL	9400 µg/L	1	300	1000			11/1/17 02:56:45	N	IV
21710073-019	Manganese, Total	N/A		Water	0.15 ppm	50 mL	149 µg/L	1	5	10			11/1/17 02:56:45	N	IV
21710073-019	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 02:56:45	N	IV
21710073-019	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 02:56:45	N	IV
21710073-019	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 02:56:45	N	IV
21710073-020	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 03:00:04	N	IV
21710073-021	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 03:03:22	N	IV
21710073-021	Barium, Total	N/A		Water	0.03 ppm	50 mL	33 µg/L	1	13	20			11/1/17 03:03:22	N	IV
21710073-021	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 03:03:22	N	IV
21710073-021	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 03:03:22	N	IV
21710073-021	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 03:03:22	N	IV
21710073-021	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 03:03:22	N	IV
21710073-021	Iron, Total	N/A		Water	8.09 ppm	50 mL	8090 µg/L	1	80	100			11/1/17 03:03:22	N	IV
21710073-021	Magnesium, Total	N/A		Water	7.62 ppm	50 mL	7600 µg/L	1	300	1000			11/1/17 03:03:22	N	IV
21710073-021	Manganese, Total	N/A		Water	0.15 ppm	50 mL	146 µg/L	1	5	10			11/1/17 03:03:22	N	IV
21710073-021	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 03:03:22	N	IV
21710073-021	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 03:03:22	N	IV
21710073-021	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 03:03:22	N	IV

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568348 **Method/Testcode:** 6010C/Cd D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1710073-022	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 03:06:41	N	IV

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Metals Cover Page

Analyst: NM　　Date: 11/1/17　　Instrument: ~~E4~~ Cu/Bin ICP6

Data File: 6NOV01B　　Reviewed By: CK 11/2/17　　Entered By: CK 11/2/17

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
5084460	Fe	301955	6010C		
	Mn	301957	6010C		
5084461	CaFeKMgMnPbSeTl	301960	6010C		
5084462	AgAlAsBaBeCdCrCu	302021	6010C	Mn	
	Fe Mg Mn Na Ni Pb				
	SbZn				
5084463	CdCuFePbSb Se Zn	302022	6010C	Mn	
5084464	TAl+BMoSnSr	301956	6010C		10194-003,005 Fe

Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

ICP-6 Run Log

Serial number: MY15340001

Analyst: NM Date: 11/1/17 Data File: 6NOV01B

	Prep Date	Lot #			Prep Date	Lot #
MRL	9/18/17	M7620093B		Cal Std 1	9/18/17	M7620093B
ICSA	10/13/17	M7620109A		Cal Std 2	11/1/17	M7620010D
ICSAB	10/13/17	M7620115H		Cal Std 5/ HLCCV1	10/25/17	M7620022B
Int. Std	11/1/17	M7620125N		ICV/CCV	11/1/17	M7620049BB
HLCCV3	10/25/17	M7620086L		HLCCV2	10/25/17	M7620072B

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl		Pipet Used	DOD Pipet Verification		IEC Date
Lot	M7600028W	M7600030		M2S, M3S	M7290047		-

1:9	PBW-301955	1:39	R1710113-003 10X 002	2:6	R1710088-002S
1:10	LCSW-301955	1:40	R1710113-003 2X 002	2:7	R1710088-002SD
1:11	R1710073-009 10X	1:41	R1710113-003 002	2:8	R1710088-002A
1:12	R1710073-009L 10X	1:42	R1710113-004 100X	2:9	R1710088-002L
1:13	PBW-301957	1:43	R1710113-004 10X	2:10	R1710088-003
1:14	LCSW-301957	1:44	R1710113-004 2X	2:11	R1710088-004
1:15	R1710031-019	1:45	R1710113-005 100X	2:12	R1710211-001
1:16	R1710031-019L	1:46	R1710113-005 10X	2:13	R1710211-002
1:17	PBW-301960	S1:6	Continuing Calibration Verification	2:14	R1710211-003
1:18	LCSW-301960	S1:7	Continuing Calibration Blank	2:15	R1710211-004
S1:6	Continuing Calibration Verification	1:47	R1710113-005 2X	S1:8	Continuing Calibration Verification1
S1:7	Continuing Calibration Blank	1:48	R1710113-005	S1:9	Continuing Calibration Blank1
1:19	R1710054-001	1:49	R1710113-006 10X	2:16	R1710236-001
1:20	R1710054-001S	1:50	R1710113-007 10X	2:17	R1710236-002
1:21	R1710054-001SD	1:51	R1710113-007 typo	2:18	R1710236-003
1:22	R1710054-001A	1:52	R1710200-001 10X	2:19	R1710236-004
1:23	R1710054-001L	1:53	R1710200-001 CK 11/2/17	2:20	R1710236-005
1:24	R1710054-002	1:54	R1710200-002 003	2:21	R1710236-006
1:25	R1710054-004	1:55	R1710054-013	2:22	R1710236-007
1:26	R1710054-006	S1:6	Continuing Calibration Verification	2:23	R1710236-008
1:27	R1710054-008 10X	S1:7	Continuing Calibration Blank	2:24	R1710236-009
1:28	R1710054-008	S1:3	Contract Required Detection Limit	2:25	R1710236-010
S1:6	Continuing Calibration Verification	S1:4	Interference Check Solution A	S1:8	Continuing Calibration Verification1
S1:7	Continuing Calibration Blank	S1:5	Interference Check Solution AB	S1:9	Continuing Calibration Blank1
1:29	R1710054-010	S1:21	HLCCV2	2:26	R1710236-010L
1:30	R1710054-012 10X	S1:22	HLCCV3	2:27	PBW-302021 RPT
1:31	R1710054-012	S1:23	HLCCV1	S1:8	Continuing Calibration Verification1
1:32	R1710113-001 10X	S1:8	Continuing Calibration Verification1	S1:9	Continuing Calibration Blank1
1:33	R1710113-001 CK 11/1/17	S1:9	Continuing Calibration Blank1	S1:3	Contract Required Detection Limit
1:34	R1710113-002 100X 003	1:56	PBW-301737	S1:4	Interference Check Solution A
1:35	R1710113-002 10X 003	1:57	LCSW-301737	S1:5	Interference Check Solution AB
1:36	R1710113-002 2X 003	1:58	R1710018-003 100X	S1:6	Continuing Calibration Verification
1:37	R1710113-002 003	1:59	R1710018-009 100X	S1:7	Continuing Calibration Blank
1:38	R1710113-003 100X 002	1:60	R1710018-009L 100X		
S1:6	Continuing Calibration Verification	2:1	FBLK-302021		
S1:7	Continuing Calibration Blank	2:2	PBW-302021		
		2:3	LCSW-302021		
		2:4	R1710088-001		
		2:5	R1710088-002		
		S1:8	Continuing Calibration Verification1		
		S1:9	Continuing Calibration Blank1		

NM 11/1/17 1/2

P:\INTRANET\QAQC 2/4/16 M765 Page 96

ICP-6 Run Log

Serial number: MY15340001

Analyst: NM Date: 11/1/17 Data File: 6NOV01B

	Prep Date	Lot #
MRL		
ICSA		
ICSAB		
Int. Std	See Previous Page	

	Prep Date	Lot #
Cal Std 1		
Cal Std 2		
Cal Std 5/ HLCCV1	NM 11/1/17	
ICV/CCV		
HLCCV2		

(Cal Std 4 is a 1/5 and Cal Std 3 is a 1/100 dilution of Cal Std 5)

Blank Prep - Daily	NHO3	HCl	Pipet Used	DOD Pipet Verification	IEC Date
Lot					

Lot	
2:28	PBW-302022
2:29	LCSW-302022
2:30	R1710078-002
2:31	R1710078-002S
2:32	R1710078-002SD
2:33	R1710078-002A
2:34	R1710078-002L
2:35	R1710078-003
2:36	R1710078-004
2:37	R1710078-005
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
2:38	R1710078-006
2:39	R1710078-007
2:40	R1710078-009
2:41	R1710078-010
2:42	R1710078-011
2:43	R1710078-012
2:44	R1710078-013
2:45	R1710078-014
2:46	R1710078-015
2:47	R1710078-016
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
2:48	R1710205-001 20X
2:49	R1710205-001 5X
2:50	R1710205-001
2:51	R1710205-001D 5X
2:52	R1710205-002 20X
2:53	R1710205-002 5X
2:54	R1710205-002
2:55	R1710205-002D 5X
S1:6	Continuing Calibration Verification
S1:7	Continuing Calibration Blank
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1

2:56	PBW-301956
2:57	LCSW-301956
2:58	R1710073-023
2:59	R1710073-024
2:60	R1710073-028
3:1	R1710073-029
3:2	R1710073-030
3:3	R1710073-031
3:4	R1710073-032
3:5	R1710073-033
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
3:6	R1710073-033L
3:7	R1710163-003
3:8	R1710163-010
3:9	R1710194-001
3:10	R1710194-002
3:11	R1710194-002S
3:12	R1710194-002SD
3:13	R1710194-002A
3:14	R1710194-002L
3:15	R1710194-003
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
3:16	R1710194-004
3:17	R1710194-005
3:18	R1710194-007
3:19	R1710208-003
3:20	R1710208-008
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1
S1:3	Contract Required Detection Limit
S1:4	Interference Check Solution A
S1:5	Interference Check Solution AB
S1:8	Continuing Calibration Verification1
S1:9	Continuing Calibration Blank1

NM 11/1/17

7/2

Agilent Technologies

Path: C:\Agilent\ICP Expert\My Results\6NOV01B.esws
Date created: 11/10/2015 11:09:45 AM
Instrument used: MY15340001
Software Version : 7.100.6821.61355 Firmware Version : 2994
Notes:

Detailed Results

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 17:20:48	Blank	Ag (328.068 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-125.6661
11/1/2017 17:20:48	Blank	Al (394.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	83.2660
11/1/2017 17:20:48	Blank	As (188.980 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-2.8977
11/1/2017 17:20:48	Blank	B (249.772 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	90.8182
11/1/2017 17:20:48	Blank	Ba (230.424 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	8.0097
11/1/2017 17:20:48	Blank	Be (313.107 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-506.4220
11/1/2017 17:20:48	Blank	Ca (227.547 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	6.1700
11/1/2017 17:20:48	Blank	Cd (214.439 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	12.4480
11/1/2017 17:20:48	Blank	Co (230.786 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.3037
11/1/2017 17:20:48	Blank	Cr (267.716 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.4709
11/1/2017 17:20:48	Blank	Cu (327.395 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	21.4778
11/1/2017 17:20:48	Blank	Fe (234.350 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	72.7576
11/1/2017 17:20:48	Blank	K (766.491 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	57.4981
11/1/2017 17:20:48	Blank	Mg (279.078 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-7.0294
11/1/2017 17:20:48	Blank	Mn (257.610 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	32.5669
11/1/2017 17:20:48	Blank	Mo (202.032 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	16.7992
11/1/2017 17:20:48	Blank	Na (588.995 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-5978.7201
11/1/2017 17:20:48	Blank	Ni (230.299 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-26.0500
11/1/2017 17:20:48	Blank	Pb (220.353 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	5.6342
11/1/2017 17:20:48	Blank	Sb (217.582 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	4.1307
11/1/2017 17:20:48	Blank	Se (196.026 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	5.5189
11/1/2017 17:20:48	Blank	Sn (189.925 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-0.1532
11/1/2017 17:20:48	Blank	Sr (216.596 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-1.1777
11/1/2017 17:20:48	Blank	Ti (336.122 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-419.8931
11/1/2017 17:20:48	Blank	Tl (351.923 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	14.6249
11/1/2017 17:20:48	Blank	V (292.401 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	110.0844
11/1/2017 17:20:48	Blank	Y (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	936410.29
11/1/2017 17:20:48	Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.00	1.00 (Ratio)	936127.42
11/1/2017 17:20:48	Blank	Zn (213.857 nm)	0.0000 (ppm)	N/A	0.0000 (ppm)	-30.7212
11/1/2017 17:24:08	Standard 1	Ag (328.068 nm)		N/A		-120.5821
11/1/2017 17:24:08	Standard 1	Al (394.401 nm)		N/A		304.1290
11/1/2017 17:24:08	Standard 1	As (188.980 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	4.4570
11/1/2017 17:24:08	Standard 1	B (249.772 nm)		N/A		72.2977
11/1/2017 17:24:08	Standard 1	Ba (230.424 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	742.3201
11/1/2017 17:24:08	Standard 1	Be (313.107 nm)		N/A		-519.0163
11/1/2017 17:24:08	Standard 1	Ca (227.547 nm)		N/A		34.3221
11/1/2017 17:24:08	Standard 1	Cd (214.439 nm)	0.0010 (ppm)	N/A	0.0010 (ppm)	36.9250
11/1/2017 17:24:08	Standard 1	Co (230.786 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	27.2280
11/1/2017 17:24:08	Standard 1	Cr (267.716 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	251.2194
11/1/2017 17:24:08	Standard 1	Cu (327.395 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	652.1048

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 17:24:08	Standard 1	Fe (234.350 nm)		N/A		11.3660
11/1/2017 17:24:08	Standard 1	K (766.491 nm)		N/A		5715.3334
11/1/2017 17:24:08	Standard 1	Mg (279.078 nm)		N/A		992.9101
11/1/2017 17:24:08	Standard 1	Mn (257.610 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	3402.0811
11/1/2017 17:24:08	Standard 1	Mo (202.032 nm)	0.0250 (ppm)	N/A	0.0250 (ppm)	270.6692
11/1/2017 17:24:08	Standard 1	Na (588.995 nm)		N/A		17391.1109
11/1/2017 17:24:08	Standard 1	Ni (230.299 nm)		N/A		-24.5895
11/1/2017 17:24:08	Standard 1	Pb (220.353 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	16.0676
11/1/2017 17:24:08	Standard 1	Sb (217.582 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	15.3119
11/1/2017 17:24:08	Standard 1	Se (196.026 nm)		N/A		6.0892
11/1/2017 17:24:08	Standard 1	Sn (189.925 nm)		N/A		-0.6474
11/1/2017 17:24:08	Standard 1	Sr (216.596 nm)		N/A		-4.3918
11/1/2017 17:24:08	Standard 1	Ti (336.122 nm)		N/A		-443.2258
11/1/2017 17:24:08	Standard 1	Tl (351.923 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	31.3451
11/1/2017 17:24:08	Standard 1	V (292.401 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	207.9685
11/1/2017 17:24:08	Standard 1	Y (360.074 nm)	1.00 (Ratio)	0.79	1.00 (Ratio)	931929.48
11/1/2017 17:24:08	Standard 1	Y_R (360.074 nm)	1.00 (Ratio)	0.79	1.00 (Ratio)	931675.06
11/1/2017 17:24:08	Standard 1	Zn (213.857 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	256.3019
11/1/2017 17:27:29	Standard 2	Ag (328.068 nm)		N/A		-119.1428
11/1/2017 17:27:29	Standard 2	Al (394.401 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1244.6777
11/1/2017 17:27:29	Standard 2	As (188.980 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	7.6778
11/1/2017 17:27:29	Standard 2	B (249.772 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	5369.6136
11/1/2017 17:27:29	Standard 2	Ba (230.424 nm)		N/A		1.3254
11/1/2017 17:27:29	Standard 2	Be (313.107 nm)	0.0030 (ppm)	N/A	0.0030 (ppm)	3859.3622
11/1/2017 17:27:29	Standard 2	Ca (227.547 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	58.2607
11/1/2017 17:27:29	Standard 2	Cd (214.439 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	128.2170
11/1/2017 17:27:29	Standard 2	Co (230.786 nm)		N/A		-2.1899
11/1/2017 17:27:29	Standard 2	Cr (267.716 nm)		N/A		12.9543
11/1/2017 17:27:29	Standard 2	Cu (327.395 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	1245.8600
11/1/2017 17:27:29	Standard 2	Fe (234.350 nm)		N/A		28.8829
11/1/2017 17:27:29	Standard 2	K (766.491 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	5614.8593
11/1/2017 17:27:29	Standard 2	Mg (279.078 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	1983.3364
11/1/2017 17:27:29	Standard 2	Mn (257.610 nm)		N/A		43.0209
11/1/2017 17:27:29	Standard 2	Mo (202.032 nm)		N/A		12.2301
11/1/2017 17:27:29	Standard 2	Na (588.995 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	39908.5670
11/1/2017 17:27:29	Standard 2	Ni (230.299 nm)		N/A		-24.9398
11/1/2017 17:27:29	Standard 2	Pb (220.353 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	118.8628
11/1/2017 17:27:29	Standard 2	Sb (217.582 nm)	0.0600 (ppm)	N/A	0.0600 (ppm)	86.7875
11/1/2017 17:27:29	Standard 2	Se (196.026 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	13.4063
11/1/2017 17:27:29	Standard 2	Sn (189.925 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	636.4301
11/1/2017 17:27:29	Standard 2	Sr (216.596 nm)		N/A		-0.6183
11/1/2017 17:27:29	Standard 2	Ti (336.122 nm)		N/A		-425.4702
11/1/2017 17:27:29	Standard 2	Tl (351.923 nm)		N/A		7.9410
11/1/2017 17:27:29	Standard 2	V (292.401 nm)		N/A		108.0613
11/1/2017 17:27:29	Standard 2	Y (360.074 nm)	1.00 (Ratio)	0.90	1.00 (Ratio)	932347.41
11/1/2017 17:27:29	Standard 2	Y_R (360.074 nm)	1.00 (Ratio)	0.90	1.00 (Ratio)	932219.31
11/1/2017 17:27:29	Standard 2	Zn (213.857 nm)		N/A		-26.5468
11/1/2017 17:30:49	Standard 3	Ag (328.068 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	594.9387
11/1/2017 17:30:49	Standard 3	Al (394.401 nm)		N/A		2382.0745
11/1/2017 17:30:49	Standard 3	As (188.980 nm)		N/A		16.6388
11/1/2017 17:30:49	Standard 3	B (249.772 nm)		N/A		1435.1353

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 17:30:49	Standard 3	Ba (230.424 nm)		N/A		7453.8470
11/1/2017 17:30:49	Standard 3	Be (313.107 nm)	0.0050 (ppm)	N/A	0.0050 (ppm)	6835.9273
11/1/2017 17:30:49	Standard 3	Ca (227.547 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	31.6589
11/1/2017 17:30:49	Standard 3	Cd (214.439 nm)		N/A		244.3878
11/1/2017 17:30:49	Standard 3	Co (230.786 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	523.9441
11/1/2017 17:30:49	Standard 3	Cr (267.716 nm)	0.0100 (ppm)	N/A	0.0100 (ppm)	528.8173
11/1/2017 17:30:49	Standard 3	Cu (327.395 nm)		N/A		1547.0876
11/1/2017 17:30:49	Standard 3	Fe (234.350 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	1512.4554
11/1/2017 17:30:49	Standard 3	K (766.491 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	1442.4589
11/1/2017 17:30:49	Standard 3	Mg (279.078 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	987.8086
11/1/2017 17:30:49	Standard 3	Mn (257.610 nm)		N/A		5114.1157
11/1/2017 17:30:49	Standard 3	Mo (202.032 nm)		N/A		538.3619
11/1/2017 17:30:49	Standard 3	Na (588.995 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	17114.7957
11/1/2017 17:30:49	Standard 3	Ni (230.299 nm)	0.0400 (ppm)	N/A	0.0400 (ppm)	261.0267
11/1/2017 17:30:49	Standard 3	Pb (220.353 nm)		N/A		26.9026
11/1/2017 17:30:49	Standard 3	Sb (217.582 nm)		N/A		138.2927
11/1/2017 17:30:49	Standard 3	Se (196.026 nm)		N/A		14.0321
11/1/2017 17:30:49	Standard 3	Sn (189.925 nm)		N/A		129.2747
11/1/2017 17:30:49	Standard 3	Sr (216.596 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	760.8255
11/1/2017 17:30:49	Standard 3	Ti (336.122 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	10487.9120
11/1/2017 17:30:49	Standard 3	Tl (351.923 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	60.5364
11/1/2017 17:30:49	Standard 3	V (292.401 nm)	0.0500 (ppm)	N/A	0.0500 (ppm)	1885.7703
11/1/2017 17:30:49	Standard 3	Y (360.074 nm)	1.00 (Ratio)	0.78	1.00 (Ratio)	935845.66
11/1/2017 17:30:49	Standard 3	Y_R (360.074 nm)	1.00 (Ratio)	0.79	1.00 (Ratio)	935679.32
11/1/2017 17:30:49	Standard 3	Zn (213.857 nm)	0.0200 (ppm)	N/A	0.0200 (ppm)	547.1374
11/1/2017 17:34:10	Standard 4	Ag (328.068 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	14266.3824
11/1/2017 17:34:10	Standard 4	Al (394.401 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	49672.1429
11/1/2017 17:34:10	Standard 4	As (188.980 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	362.9156
11/1/2017 17:34:10	Standard 4	B (249.772 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	28126.3091
11/1/2017 17:34:10	Standard 4	Ba (230.424 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	145965.0033
11/1/2017 17:34:10	Standard 4	Be (313.107 nm)	0.1000 (ppm)	N/A	0.1000 (ppm)	150837.9344
11/1/2017 17:34:10	Standard 4	Ca (227.547 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	564.8295
11/1/2017 17:34:10	Standard 4	Cd (214.439 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	4645.2034
11/1/2017 17:34:10	Standard 4	Co (230.786 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	10454.7271
11/1/2017 17:34:10	Standard 4	Cr (267.716 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	10521.0412
11/1/2017 17:34:10	Standard 4	Cu (327.395 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	30580.8213
11/1/2017 17:34:10	Standard 4	Fe (234.350 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	23972.1755
11/1/2017 17:34:10	Standard 4	K (766.491 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	29583.0168
11/1/2017 17:34:10	Standard 4	Mg (279.078 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	20043.2782
11/1/2017 17:34:10	Standard 4	Mn (257.610 nm)	0.3000 (ppm)	N/A	0.3000 (ppm)	98605.0293
11/1/2017 17:34:10	Standard 4	Mo (202.032 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	10714.5245
11/1/2017 17:34:10	Standard 4	Na (588.995 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	451756.9732
11/1/2017 17:34:10	Standard 4	Ni (230.299 nm)	0.8000 (ppm)	N/A	0.8000 (ppm)	5663.8154
11/1/2017 17:34:10	Standard 4	Pb (220.353 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	457.3086
11/1/2017 17:34:10	Standard 4	Sb (217.582 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2827.2394
11/1/2017 17:34:10	Standard 4	Se (196.026 nm)	0.2000 (ppm)	N/A	0.2000 (ppm)	175.1382
11/1/2017 17:34:10	Standard 4	Sn (189.925 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	2594.7338
11/1/2017 17:34:10	Standard 4	Sr (216.596 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	15099.5713
11/1/2017 17:34:10	Standard 4	Ti (336.122 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	220224.7585
11/1/2017 17:34:10	Standard 4	Tl (351.923 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	1089.3385
11/1/2017 17:34:10	Standard 4	V (292.401 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	36065.5295

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 17:34:10	Standard 4	Y (360.074 nm)	0.98 (Ratio)	0.78	0.98 (Ratio)	916371.29
11/1/2017 17:34:10	Standard 4	Y_R (360.074 nm)	0.98 (Ratio)	0.78	0.98 (Ratio)	916380.92
11/1/2017 17:34:10	Standard 4	Zn (213.857 nm)	0.4000 (ppm)	N/A	0.4000 (ppm)	11486.1719
11/1/2017 17:37:29	Standard 5	Ag (328.068 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	73395.5200
11/1/2017 17:37:29	Standard 5	Al (394.401 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	267918.2714
11/1/2017 17:37:29	Standard 5	As (188.980 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	1849.0375
11/1/2017 17:37:29	Standard 5	B (249.772 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	143517.7933
11/1/2017 17:37:29	Standard 5	Ba (230.424 nm)	20.0000 (ppm)	N/A	20.0000 (ppm)	698765.2672
11/1/2017 17:37:29	Standard 5	Be (313.107 nm)	0.5000 (ppm)	N/A	0.5000 (ppm)	757935.2284
11/1/2017 17:37:29	Standard 5	Ca (227.547 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2948.4473
11/1/2017 17:37:29	Standard 5	Cd (214.439 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	22737.3538
11/1/2017 17:37:29	Standard 5	Co (230.786 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	51425.9752
11/1/2017 17:37:29	Standard 5	Cr (267.716 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	52134.9536
11/1/2017 17:37:29	Standard 5	Cu (327.395 nm)	2.5000 (ppm)	N/A	2.5000 (ppm)	157213.9620
11/1/2017 17:37:29	Standard 5	Fe (234.350 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	116107.8748
11/1/2017 17:37:29	Standard 5	K (766.491 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	154732.0858
11/1/2017 17:37:29	Standard 5	Mg (279.078 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	100908.2747
11/1/2017 17:37:29	Standard 5	Mn (257.610 nm)	1.5000 (ppm)	N/A	1.5000 (ppm)	485024.4948
11/1/2017 17:37:29	Standard 5	Mo (202.032 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	53516.5660
11/1/2017 17:37:29	Standard 5	Na (588.995 nm)	50.0000 (ppm)	N/A	50.0000 (ppm)	2288585.9378
11/1/2017 17:37:29	Standard 5	Ni (230.299 nm)	4.0000 (ppm)	N/A	4.0000 (ppm)	27702.7510
11/1/2017 17:37:29	Standard 5	Pb (220.353 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	2236.7490
11/1/2017 17:37:29	Standard 5	Sb (217.582 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	14276.0977
11/1/2017 17:37:29	Standard 5	Se (196.026 nm)	1.0000 (ppm)	N/A	1.0000 (ppm)	880.0851
11/1/2017 17:37:29	Standard 5	Sn (189.925 nm)	10.0000 (ppm)	N/A	10.0000 (ppm)	12732.8993
11/1/2017 17:37:29	Standard 5	Sr (216.596 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	74548.4614
11/1/2017 17:37:29	Standard 5	Ti (336.122 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	1095818.0589
11/1/2017 17:37:29	Standard 5	Tl (351.923 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	5705.0758
11/1/2017 17:37:29	Standard 5	V (292.401 nm)	5.0000 (ppm)	N/A	5.0000 (ppm)	180102.4786
11/1/2017 17:37:29	Standard 5	Y (360.074 nm)	0.93 (Ratio)	0.80	0.93 (Ratio)	868890.18
11/1/2017 17:37:29	Standard 5	Y_R (360.074 nm)	0.93 (Ratio)	0.80	0.93 (Ratio)	869028.13
11/1/2017 17:37:29	Standard 5	Zn (213.857 nm)	2.0000 (ppm)	N/A	2.0000 (ppm)	58100.2862
11/1/2017 17:40:49	Initial Calibration Verification	Ag (328.068 nm)	0.4886 (ppm)	0.49	0.4886 (ppm)	35764.4811
11/1/2017 17:40:49	Initial Calibration Verification	Al (394.401 nm)	9.4977 (ppm)	0.66	9.4977 (ppm)	126910.6797
11/1/2017 17:40:49	Initial Calibration Verification	As (188.980 nm)	0.9721 (ppm)	0.12	0.9721 (ppm)	896.8549
11/1/2017 17:40:49	Initial Calibration Verification	B (249.772 nm)	2.4209 (ppm)	0.49	2.4209 (ppm)	69465.9169
11/1/2017 17:40:49	Initial Calibration Verification	Ba (230.424 nm)	10.3099 (ppm)	0.52	10.3099 (ppm)	360829.2121
11/1/2017 17:40:49	Initial Calibration Verification	Be (313.107 nm)	0.2528 (ppm)	0.50	0.2528 (ppm)	382962.9256
11/1/2017 17:40:49	Initial Calibration Verification	Ca (227.547 nm)	24.1550 (ppm)	0.42	24.1550 (ppm)	1424.7344
11/1/2017 17:40:49	Initial Calibration Verification	Cd (214.439 nm)	0.5005 (ppm)	0.29	0.5005 (ppm)	11395.6512
11/1/2017 17:40:49	Initial Calibration Verification	Co (230.786 nm)	2.5956 (ppm)	0.36	2.5956 (ppm)	26712.5173
11/1/2017 17:40:49	Initial Calibration Verification	Cr (267.716 nm)	0.5032 (ppm)	0.44	0.5032 (ppm)	26244.4738
11/1/2017 17:40:49	Initial Calibration Verification	Cu (327.395 nm)	1.2006 (ppm)	1.00	1.2006 (ppm)	75430.4256
11/1/2017 17:40:49	Initial Calibration Verification	Fe (234.350 nm)	4.8566 (ppm)	0.34	4.8566 (ppm)	56492.8087
11/1/2017 17:40:49	Initial Calibration Verification	K (766.491 nm)	24.5424 (ppm)	0.89	24.5424 (ppm)	75833.5653
11/1/2017 17:40:49	Initial Calibration Verification	Mg (279.078 nm)	24.9510 (ppm)	0.34	24.9510 (ppm)	50338.6978
11/1/2017 17:40:49	Initial Calibration Verification	Mn (257.610 nm)	0.7528 (ppm)	0.44	0.7528 (ppm)	243574.2879
11/1/2017 17:40:49	Initial Calibration Verification	Mo (202.032 nm)	2.4017 (ppm)	0.40	2.4017 (ppm)	25714.2532
11/1/2017 17:40:49	Initial Calibration Verification	Na (588.995 nm)	24.5807 (ppm)	0.94	24.5807 (ppm)	1121949.1038
11/1/2017 17:40:49	Initial Calibration Verification	Ni (230.299 nm)	2.0378 (ppm)	0.34	2.0378 (ppm)	14114.8888
11/1/2017 17:40:49	Initial Calibration Verification	Pb (220.353 nm)	0.4997 (ppm)	0.80	0.4997 (ppm)	1121.1533

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 17:40:49	Initial Calibration Verification	Sb (217.582 nm)	4.9161 (ppm)	0.54	4.9161 (ppm)	7017.4608
11/1/2017 17:40:49	Initial Calibration Verification	Se (196.026 nm)	0.4851 (ppm)	0.55	0.4851 (ppm)	429.3152
11/1/2017 17:40:49	Initial Calibration Verification	Sn (189.925 nm)	5.0760 (ppm)	0.55	5.0760 (ppm)	6467.8073
11/1/2017 17:40:49	Initial Calibration Verification	Sr (216.596 nm)	2.5220 (ppm)	0.21	2.5220 (ppm)	37619.6264
11/1/2017 17:40:49	Initial Calibration Verification	Ti (336.122 nm)	2.4942 (ppm)	0.45	2.4942 (ppm)	546567.2936
11/1/2017 17:40:49	Initial Calibration Verification	Tl (351.923 nm)	0.9867 (ppm)	0.70	0.9867 (ppm)	2815.8881
11/1/2017 17:40:49	Initial Calibration Verification	V (292.401 nm)	2.5198 (ppm)	0.46	2.5198 (ppm)	90814.6452
11/1/2017 17:40:49	Initial Calibration Verification	Y (360.074 nm)	0.96 (Ratio)	0.83	0.96 (Ratio)	894283.14
11/1/2017 17:40:49	Initial Calibration Verification	Y_R (360.074 nm)	0.96 (Ratio)	0.84	0.96 (Ratio)	894449.34
11/1/2017 17:40:49	Initial Calibration Verification	Zn (213.857 nm)	1.0039 (ppm)	0.39	1.0039 (ppm)	29138.6502
11/1/2017 17:44:08	Initial Calibration Blank	Ag (328.068 nm)	0.0002 (ppm)	28.42	0.0002 (ppm)	-112.6960
11/1/2017 17:44:08	Initial Calibration Blank	Al (394.401 nm)	0.0026 (ppm)	16.94	0.0026 (ppm)	117.6638
11/1/2017 17:44:08	Initial Calibration Blank	As (188.980 nm)	0.0031 (ppm)	33.03	0.0031 (ppm)	-0.0219
11/1/2017 17:44:08	Initial Calibration Blank	B (249.772 nm)	0.0032 (ppm)	22.62	0.0032 (ppm)	183.1051
11/1/2017 17:44:08	Initial Calibration Blank	Ba (230.424 nm)	0.0037 (ppm)	7.83	0.0037 (ppm)	137.4008
11/1/2017 17:44:08	Initial Calibration Blank	Be (313.107 nm)	0.0001 (ppm)	11.06	0.0001 (ppm)	-375.2670
11/1/2017 17:44:08	Initial Calibration Blank	Ca (227.547 nm)	-0.0239 u (ppm)	63.66	-0.0239 (ppm)	4.7641
11/1/2017 17:44:08	Initial Calibration Blank	Cd (214.439 nm)	0.0003 (ppm)	20.33	0.0003 (ppm)	18.6680
11/1/2017 17:44:08	Initial Calibration Blank	Co (230.786 nm)	0.0009 (ppm)	13.43	0.0009 (ppm)	7.4847
11/1/2017 17:44:08	Initial Calibration Blank	Cr (267.716 nm)	0.0002 (ppm)	39.10	0.0002 (ppm)	7.9013
11/1/2017 17:44:08	Initial Calibration Blank	Cu (327.395 nm)	0.0004 (ppm)	39.70	0.0004 (ppm)	47.3874
11/1/2017 17:44:08	Initial Calibration Blank	Fe (234.350 nm)	0.0907 (ppm)	1.01	0.0907 (ppm)	1126.9762
11/1/2017 17:44:08	Initial Calibration Blank	K (766.491 nm)	0.0389 (ppm)	22.62	0.0389 (ppm)	177.6543
11/1/2017 17:44:08	Initial Calibration Blank	Mg (279.078 nm)	0.0117 (ppm)	15.51	0.0117 (ppm)	16.5292
11/1/2017 17:44:08	Initial Calibration Blank	Mn (257.610 nm)	0.0004 (ppm)	2.47	0.0004 (ppm)	173.8905
11/1/2017 17:44:08	Initial Calibration Blank	Mo (202.032 nm)	0.0027 (ppm)	4.68	0.0027 (ppm)	45.8946
11/1/2017 17:44:08	Initial Calibration Blank	Na (588.995 nm)	0.0111 (ppm)	17.03	0.0111 (ppm)	-5470.6056
11/1/2017 17:44:08	Initial Calibration Blank	Ni (230.299 nm)	0.0014 (ppm)	20.99	0.0014 (ppm)	-16.5886
11/1/2017 17:44:08	Initial Calibration Blank	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.3941
11/1/2017 17:44:08	Initial Calibration Blank	Sb (217.582 nm)	0.0049 (ppm)	17.10	0.0049 (ppm)	11.0802
11/1/2017 17:44:08	Initial Calibration Blank	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	6.7049
11/1/2017 17:44:08	Initial Calibration Blank	Sn (189.925 nm)	0.0036 (ppm)	7.40	0.0036 (ppm)	4.4091
11/1/2017 17:44:08	Initial Calibration Blank	Sr (216.596 nm)	0.0010 (ppm)	2.17	0.0010 (ppm)	13.0839
11/1/2017 17:44:08	Initial Calibration Blank	Ti (336.122 nm)	0.0018 (ppm)	7.35	0.0018 (ppm)	-16.7611
11/1/2017 17:44:08	Initial Calibration Blank	Tl (351.923 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	13.8616
11/1/2017 17:44:08	Initial Calibration Blank	V (292.401 nm)	0.0008 (ppm)	14.43	0.0008 (ppm)	140.3344
11/1/2017 17:44:08	Initial Calibration Blank	Y (360.074 nm)	1.00 (Ratio)	0.81	1.00 (Ratio)	937920.16
11/1/2017 17:44:08	Initial Calibration Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.81	1.00 (Ratio)	938067.08
11/1/2017 17:44:08	Initial Calibration Blank	Zn (213.857 nm)	0.0015 (ppm)	3.04	0.0015 (ppm)	12.0512
11/1/2017 17:47:26	Contract Required Detection Limit	Ag (328.068 nm)	0.0096 (ppm)	0.37	0.0096 (ppm)	578.6562
11/1/2017 17:47:26	Contract Required Detection Limit	Al (394.401 nm)	0.1725 (ppm)	0.71	0.1725 (ppm)	2386.2240
11/1/2017 17:47:26	Contract Required Detection Limit	As (188.980 nm)	0.0226 (ppm)	11.46	0.0226 (ppm)	18.0185
11/1/2017 17:47:26	Contract Required Detection Limit	B (249.772 nm)	0.1884 (ppm)	0.63	0.1884 (ppm)	5489.4533
11/1/2017 17:47:26	Contract Required Detection Limit	Ba (230.424 nm)	0.2100 (ppm)	0.49	0.2100 (ppm)	7357.5545
11/1/2017 17:47:26	Contract Required Detection Limit	Be (313.107 nm)	0.0048 (ppm)	0.40	0.0048 (ppm)	6789.0236
11/1/2017 17:47:26	Contract Required Detection Limit	Ca (227.547 nm)	0.9542 (ppm)	4.27	0.9542 (ppm)	62.2101
11/1/2017 17:47:26	Contract Required Detection Limit	Cd (214.439 nm)	0.0102 (ppm)	0.87	0.0102 (ppm)	244.6587
11/1/2017 17:47:26	Contract Required Detection Limit	Co (230.786 nm)	0.0507 (ppm)	0.78	0.0507 (ppm)	520.1030
11/1/2017 17:47:26	Contract Required Detection Limit	Cr (267.716 nm)	0.0100 (ppm)	0.95	0.0100 (ppm)	521.2067
11/1/2017 17:47:26	Contract Required Detection Limit	Cu (327.395 nm)	0.0240 (ppm)	0.91	0.0240 (ppm)	1531.5064
11/1/2017 17:47:26	Contract Required Detection Limit	Fe (234.350 nm)	0.0965 (ppm)	0.50	0.0965 (ppm)	1194.0249

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 17:47:26	Contract Required Detection Limit	K (766.491 nm)	0.9342 (ppm)	0.63	0.9342 (ppm)	2941.9125
11/1/2017 17:47:26	Contract Required Detection Limit	Mg (279.078 nm)	0.9895 (ppm)	0.55	0.9895 (ppm)	1989.6074
11/1/2017 17:47:26	Contract Required Detection Limit	Mn (257.610 nm)	0.0152 (ppm)	0.49	0.0152 (ppm)	4949.5758
11/1/2017 17:47:26	Contract Required Detection Limit	Mo (202.032 nm)	0.0246 (ppm)	2.15	0.0246 (ppm)	280.3838
11/1/2017 17:47:26	Contract Required Detection Limit	Na (588.995 nm)	1.0048 (ppm)	1.00	1.0048 (ppm)	40127.0917
11/1/2017 17:47:26	Contract Required Detection Limit	Ni (230.299 nm)	0.0405 (ppm)	1.27	0.0405 (ppm)	255.2248
11/1/2017 17:47:26	Contract Required Detection Limit	Pb (220.353 nm)	0.0104 (ppm)	3.59	0.0104 (ppm)	28.8377
11/1/2017 17:47:26	Contract Required Detection Limit	Sb (217.582 nm)	0.0594 (ppm)	1.88	0.0594 (ppm)	88.9390
11/1/2017 17:47:26	Contract Required Detection Limit	Se (196.026 nm)	0.0083 (ppm)	20.10	0.0083 (ppm)	12.7383
11/1/2017 17:47:26	Contract Required Detection Limit	Sn (189.925 nm)	0.5028 (ppm)	0.87	0.5028 (ppm)	640.5861
11/1/2017 17:47:26	Contract Required Detection Limit	Sr (216.596 nm)	0.1005 (ppm)	0.98	0.1005 (ppm)	1498.4798
11/1/2017 17:47:26	Contract Required Detection Limit	Ti (336.122 nm)	0.0504 (ppm)	0.47	0.0504 (ppm)	10624.7477
11/1/2017 17:47:26	Contract Required Detection Limit	Tl (351.923 nm)	0.0167 (ppm)	10.84	0.0167 (ppm)	61.9084
11/1/2017 17:47:26	Contract Required Detection Limit	V (292.401 nm)	0.0490 (ppm)	0.75	0.0490 (ppm)	1874.3505
11/1/2017 17:47:26	Contract Required Detection Limit	Y (360.074 nm)	1.00 (Ratio)	0.88	1.00 (Ratio)	936819.24
11/1/2017 17:47:26	Contract Required Detection Limit	Y_R (360.074 nm)	1.00 (Ratio)	0.88	1.00 (Ratio)	936951.99
11/1/2017 17:47:26	Contract Required Detection Limit	Zn (213.857 nm)	0.0194 (ppm)	0.98	0.0194 (ppm)	532.4512
11/1/2017 17:50:45	Interference Check Solution A	Ag (328.068 nm)	0.0001 (ppm)	86.45	0.0001 (ppm)	-115.1555
11/1/2017 17:50:45	Interference Check Solution A	Al (394.401 nm)	264.0686 o (ppm)	0.60	264.0686 (ppm)	3526311.6350
11/1/2017 17:50:45	Interference Check Solution A	As (188.980 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-1.9591
11/1/2017 17:50:45	Interference Check Solution A	B (249.772 nm)	0.0385 (ppm)	0.75	0.0385 (ppm)	1193.9110
11/1/2017 17:50:45	Interference Check Solution A	Ba (230.424 nm)	0.0004 (ppm)	15.43	0.0004 (ppm)	22.4000
11/1/2017 17:50:45	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	10.02	-0.0001 (ppm)	-595.6892
11/1/2017 17:50:45	Interference Check Solution A	Ca (227.547 nm)	269.0827 o (ppm)	0.51	269.0827 (ppm)	15808.7664
11/1/2017 17:50:45	Interference Check Solution A	Cd (214.439 nm)	-0.0010 u (ppm)	19.16	-0.0010 (ppm)	-11.3070
11/1/2017 17:50:45	Interference Check Solution A	Co (230.786 nm)	-0.0020 u (ppm)	34.15	-0.0020 (ppm)	-21.5367
11/1/2017 17:50:45	Interference Check Solution A	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	2.6516
11/1/2017 17:50:45	Interference Check Solution A	Cu (327.395 nm)	0.0006 (ppm)	36.73	0.0006 (ppm)	60.5874
11/1/2017 17:50:45	Interference Check Solution A	Fe (234.350 nm)	89.3710 o (ppm)	0.34	89.3710 (ppm)	1038303.6608
11/1/2017 17:50:45	Interference Check Solution A	K (766.491 nm)	0.0379 (ppm)	29.31	0.0379 (ppm)	174.5728
11/1/2017 17:50:45	Interference Check Solution A	Mg (279.078 nm)	265.2229 o (ppm)	0.47	265.2229 (ppm)	535155.0003
11/1/2017 17:50:45	Interference Check Solution A	Mn (257.610 nm)	0.0015 (ppm)	1.28	0.0015 (ppm)	530.8409
11/1/2017 17:50:45	Interference Check Solution A	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	14.1166
11/1/2017 17:50:45	Interference Check Solution A	Na (588.995 nm)	0.0034 (ppm)	35.96	0.0034 (ppm)	-5822.9249
11/1/2017 17:50:45	Interference Check Solution A	Ni (230.299 nm)	-0.0013 u (ppm)	47.18	-0.0013 (ppm)	-35.3225
11/1/2017 17:50:45	Interference Check Solution A	Pb (220.353 nm)	-0.0043 u (ppm)	36.00	-0.0043 (ppm)	-4.0168
11/1/2017 17:50:45	Interference Check Solution A	Sb (217.582 nm)	-0.0039 u (ppm)	> 100.00	-0.0039 (ppm)	-1.3915
11/1/2017 17:50:45	Interference Check Solution A	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.7217
11/1/2017 17:50:45	Interference Check Solution A	Sn (189.925 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-1.4784
11/1/2017 17:50:45	Interference Check Solution A	Sr (216.596 nm)	0.0190 (ppm)	4.41	0.0190 (ppm)	282.2909
11/1/2017 17:50:45	Interference Check Solution A	Ti (336.122 nm)	0.0015 (ppm)	2.13	0.0015 (ppm)	-95.6801
11/1/2017 17:50:45	Interference Check Solution A	Tl (351.923 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	17.4153
11/1/2017 17:50:45	Interference Check Solution A	V (292.401 nm)	0.0035 K (ppm)	7.18	0.0035 (ppm)	237.4810 K
11/1/2017 17:50:45	Interference Check Solution A	Y (360.074 nm)	0.87 (Ratio)	0.70	0.87 (Ratio)	813640.70
11/1/2017 17:50:45	Interference Check Solution A	Y_R (360.074 nm)	0.87 (Ratio)	0.70	0.87 (Ratio)	814135.24
11/1/2017 17:50:45	Interference Check Solution A	Zn (213.857 nm)	0.0118 K (ppm)	1.95	0.0118 (ppm)	311.2878 K
11/1/2017 17:54:04	Interference Check Solution AB	Ag (328.068 nm)	0.2158 (ppm)	0.25	0.2158 (ppm)	15729.8611
11/1/2017 17:54:04	Interference Check Solution AB	Al (394.401 nm)	264.5467 o (ppm)	0.57	264.5467 (ppm)	3532696.6077
11/1/2017 17:54:04	Interference Check Solution AB	As (188.980 nm)	0.1006 (ppm)	1.75	0.1006 (ppm)	90.2521
11/1/2017 17:54:04	Interference Check Solution AB	B (249.772 nm)	0.0389 (ppm)	0.55	0.0389 (ppm)	1206.1632
11/1/2017 17:54:04	Interference Check Solution AB	Ba (230.424 nm)	0.5291 (ppm)	0.61	0.5291 (ppm)	18524.2051

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 17:54:04	Interference Check Solution AB	Be (313.107 nm)	0.5078 (ppm)	0.38	0.5078 (ppm)	769664.6889
11/1/2017 17:54:04	Interference Check Solution AB	Ca (227.547 nm)	267.4399 o (ppm)	0.51	267.4399 (ppm)	15712.2855
11/1/2017 17:54:04	Interference Check Solution AB	Cd (214.439 nm)	0.9683 (ppm)	0.32	0.9683 (ppm)	22033.4860
11/1/2017 17:54:04	Interference Check Solution AB	Co (230.786 nm)	0.4975 (ppm)	0.23	0.4975 (ppm)	5119.4020
11/1/2017 17:54:04	Interference Check Solution AB	Cr (267.716 nm)	0.4949 (ppm)	0.39	0.4949 (ppm)	25811.8119
11/1/2017 17:54:04	Interference Check Solution AB	Cu (327.395 nm)	0.5284 (ppm)	0.81	0.5284 (ppm)	33207.8924
11/1/2017 17:54:04	Interference Check Solution AB	Fe (234.350 nm)	89.4293 o (ppm)	0.49	89.4293 (ppm)	1038981.2748
11/1/2017 17:54:04	Interference Check Solution AB	K (766.491 nm)	0.0154 (ppm)	62.26	0.0154 (ppm)	105.0068
11/1/2017 17:54:04	Interference Check Solution AB	Mg (279.078 nm)	264.2204 o (ppm)	0.44	264.2204 (ppm)	533132.2114
11/1/2017 17:54:04	Interference Check Solution AB	Mn (257.610 nm)	0.4977 (ppm)	0.38	0.4977 (ppm)	161057.0160
11/1/2017 17:54:04	Interference Check Solution AB	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.8221
11/1/2017 17:54:04	Interference Check Solution AB	Na (588.995 nm)	0.0112 (ppm)	8.91	0.0112 (ppm)	-5466.9700
11/1/2017 17:54:04	Interference Check Solution AB	Ni (230.299 nm)	0.9618 (ppm)	0.41	0.9618 (ppm)	6648.0045
11/1/2017 17:54:04	Interference Check Solution AB	Pb (220.353 nm)	0.0491 (ppm)	9.56	0.0491 (ppm)	115.2898
11/1/2017 17:54:04	Interference Check Solution AB	Sb (217.582 nm)	0.6172 (ppm)	0.40	0.6172 (ppm)	884.6187
11/1/2017 17:54:04	Interference Check Solution AB	Se (196.026 nm)	0.0505 (ppm)	10.07	0.0505 (ppm)	49.6269
11/1/2017 17:54:04	Interference Check Solution AB	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.7645
11/1/2017 17:54:04	Interference Check Solution AB	Sr (216.596 nm)	0.0195 (ppm)	2.36	0.0195 (ppm)	289.8990
11/1/2017 17:54:04	Interference Check Solution AB	Ti (336.122 nm)	0.0013 (ppm)	4.49	0.0013 (ppm)	-143.1309
11/1/2017 17:54:04	Interference Check Solution AB	Tl (351.923 nm)	0.1131 (ppm)	3.22	0.1131 (ppm)	335.7082
11/1/2017 17:54:04	Interference Check Solution AB	V (292.401 nm)	0.5100 (ppm)	0.52	0.5100 (ppm)	18466.9096
11/1/2017 17:54:04	Interference Check Solution AB	Y (360.074 nm)	0.87 (Ratio)	0.64	0.87 (Ratio)	814648.90
11/1/2017 17:54:04	Interference Check Solution AB	Y_R (360.074 nm)	0.87 (Ratio)	0.64	0.87 (Ratio)	815182.36
11/1/2017 17:54:04	Interference Check Solution AB	Zn (213.857 nm)	1.0326 (ppm)	0.33	1.0326 (ppm)	29970.9318
11/1/2017 17:57:23	Continuing Calibration Verification	Ag (328.068 nm)	0.4896 (ppm)	0.47	0.4896 (ppm)	35842.2563
11/1/2017 17:57:23	Continuing Calibration Verification	Al (394.401 nm)	9.5581 (ppm)	0.84	9.5581 (ppm)	127716.3804
11/1/2017 17:57:23	Continuing Calibration Verification	As (188.980 nm)	0.9721 (ppm)	0.73	0.9721 (ppm)	896.7843
11/1/2017 17:57:23	Continuing Calibration Verification	B (249.772 nm)	2.4180 (ppm)	0.36	2.4180 (ppm)	69382.6740
11/1/2017 17:57:23	Continuing Calibration Verification	Ba (230.424 nm)	10.3246 (ppm)	0.60	10.3246 (ppm)	361344.3666
11/1/2017 17:57:23	Continuing Calibration Verification	Be (313.107 nm)	0.2535 (ppm)	0.37	0.2535 (ppm)	384051.7901
11/1/2017 17:57:23	Continuing Calibration Verification	Ca (227.547 nm)	24.3040 (ppm)	1.26	24.3040 (ppm)	1433.4853
11/1/2017 17:57:23	Continuing Calibration Verification	Cd (214.439 nm)	0.4995 (ppm)	0.30	0.4995 (ppm)	11371.7281
11/1/2017 17:57:23	Continuing Calibration Verification	Co (230.786 nm)	2.5947 (ppm)	0.52	2.5947 (ppm)	26703.9400
11/1/2017 17:57:23	Continuing Calibration Verification	Cr (267.716 nm)	0.5038 (ppm)	0.41	0.5038 (ppm)	26273.7978
11/1/2017 17:57:23	Continuing Calibration Verification	Cu (327.395 nm)	1.2059 (ppm)	0.76	1.2059 (ppm)	75764.8886
11/1/2017 17:57:23	Continuing Calibration Verification	Fe (234.350 nm)	4.8853 (ppm)	0.62	4.8853 (ppm)	56825.7208
11/1/2017 17:57:23	Continuing Calibration Verification	K (766.491 nm)	24.5915 (ppm)	0.77	24.5915 (ppm)	75985.4201
11/1/2017 17:57:23	Continuing Calibration Verification	Mg (279.078 nm)	25.0423 (ppm)	0.48	25.0423 (ppm)	50522.9546
11/1/2017 17:57:23	Continuing Calibration Verification	Mn (257.610 nm)	0.7533 (ppm)	0.42	0.7533 (ppm)	243740.1816
11/1/2017 17:57:23	Continuing Calibration Verification	Mo (202.032 nm)	2.3971 (ppm)	0.40	2.3971 (ppm)	25665.9086
11/1/2017 17:57:23	Continuing Calibration Verification	Na (588.995 nm)	24.6830 (ppm)	1.01	24.6830 (ppm)	1126644.1682
11/1/2017 17:57:23	Continuing Calibration Verification	Ni (230.299 nm)	2.0386 (ppm)	0.40	2.0386 (ppm)	14119.9725
11/1/2017 17:57:23	Continuing Calibration Verification	Pb (220.353 nm)	0.4987 (ppm)	0.59	0.4987 (ppm)	1118.8031
11/1/2017 17:57:23	Continuing Calibration Verification	Sb (217.582 nm)	4.9039 (ppm)	0.69	4.9039 (ppm)	7000.0340
11/1/2017 17:57:23	Continuing Calibration Verification	Se (196.026 nm)	0.4799 (ppm)	1.04	0.4799 (ppm)	424.7685
11/1/2017 17:57:23	Continuing Calibration Verification	Sn (189.925 nm)	5.0622 (ppm)	0.17	5.0622 (ppm)	6450.2219
11/1/2017 17:57:23	Continuing Calibration Verification	Sr (216.596 nm)	2.5105 (ppm)	0.43	2.5105 (ppm)	37449.0022
11/1/2017 17:57:23	Continuing Calibration Verification	Ti (336.122 nm)	2.4985 (ppm)	0.51	2.4985 (ppm)	547510.8191
11/1/2017 17:57:23	Continuing Calibration Verification	Tl (351.923 nm)	0.9898 (ppm)	0.21	0.9898 (ppm)	2824.6141
11/1/2017 17:57:23	Continuing Calibration Verification	V (292.401 nm)	2.5205 (ppm)	0.47	2.5205 (ppm)	90838.8108
11/1/2017 17:57:23	Continuing Calibration Verification	Y (360.074 nm)	0.95 (Ratio)	0.87	0.95 (Ratio)	893009.96

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 17:57:23	Continuing Calibration Verification	Y_R (360.074 nm)	0.95 (Ratio)	0.87	0.95 (Ratio)	893394.17
11/1/2017 17:57:23	Continuing Calibration Verification	Zn (213.857 nm)	1.0029 (ppm)	0.48	1.0029 (ppm)	29107.1666
11/1/2017 18:00:42	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-125.0601
11/1/2017 18:00:42	Continuing Calibration Blank	Al (394.401 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	88.0177
11/1/2017 18:00:42	Continuing Calibration Blank	As (188.980 nm)	0.0041 u (ppm)	91.25	0.0041 (ppm)	0.9173
11/1/2017 18:00:42	Continuing Calibration Blank	B (249.772 nm)	0.0013 (ppm)	44.37	0.0013 (ppm)	127.5502
11/1/2017 18:00:42	Continuing Calibration Blank	Ba (230.424 nm)	0.0003 (ppm)	99.64	0.0003 (ppm)	17.2115
11/1/2017 18:00:42	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	80.24	0.0000 (ppm)	-488.3986
11/1/2017 18:00:42	Continuing Calibration Blank	Ca (227.547 nm)	-0.0150 u (ppm)	> 100.00	-0.0150 (ppm)	5.2886
11/1/2017 18:00:42	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	14.4581
11/1/2017 18:00:42	Continuing Calibration Blank	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.7865
11/1/2017 18:00:42	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.3663
11/1/2017 18:00:42	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	19.0215
11/1/2017 18:00:42	Continuing Calibration Blank	Fe (234.350 nm)	0.0049 (ppm)	8.88	0.0049 (ppm)	129.6935
11/1/2017 18:00:42	Continuing Calibration Blank	K (766.491 nm)	0.0111 (ppm)	79.60	0.0111 (ppm)	91.8796
11/1/2017 18:00:42	Continuing Calibration Blank	Mg (279.078 nm)	0.0029 (ppm)	29.91	0.0029 (ppm)	-1.1377
11/1/2017 18:00:42	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	32.3239
11/1/2017 18:00:42	Continuing Calibration Blank	Mo (202.032 nm)	0.0017 (ppm)	15.17	0.0017 (ppm)	35.1998
11/1/2017 18:00:42	Continuing Calibration Blank	Na (588.995 nm)	0.0017 (ppm)	77.57	0.0017 (ppm)	-5901.8076
11/1/2017 18:00:42	Continuing Calibration Blank	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-25.5616
11/1/2017 18:00:42	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.2885
11/1/2017 18:00:42	Continuing Calibration Blank	Sb (217.582 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	6.2931
11/1/2017 18:00:42	Continuing Calibration Blank	Se (196.026 nm)	-0.0009 u (ppm)	4.64	-0.0009 (ppm)	4.7115
11/1/2017 18:00:42	Continuing Calibration Blank	Sn (189.925 nm)	0.0012 (ppm)	79.09	0.0012 (ppm)	1.4345
11/1/2017 18:00:42	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.2017
11/1/2017 18:00:42	Continuing Calibration Blank	Ti (336.122 nm)	0.0007 (ppm)	0.84	0.0007 (ppm)	-266.1129
11/1/2017 18:00:42	Continuing Calibration Blank	Tl (351.923 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	13.6622
11/1/2017 18:00:42	Continuing Calibration Blank	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	111.9799
11/1/2017 18:00:42	Continuing Calibration Blank	Y (360.074 nm)	1.00 (Ratio)	0.84	1.00 (Ratio)	934211.15
11/1/2017 18:00:42	Continuing Calibration Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.84	1.00 (Ratio)	934454.59
11/1/2017 18:00:42	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-30.0730
11/1/2017 18:04:01	PBW-301955	Ag (328.068 nm)	0.0001 (ppm)	19.01	0.0001 (ppm)	-115.8806
11/1/2017 18:04:01	PBW-301955	Al (394.401 nm)	-0.0004 u (ppm)	63.20	-0.0004 (ppm)	77.4323
11/1/2017 18:04:01	PBW-301955	As (188.980 nm)	0.0011 (ppm)	> 100.00	0.0011 (ppm)	-1.8548
11/1/2017 18:04:01	PBW-301955	B (249.772 nm)	0.0003 (ppm)	67.50	0.0003 (ppm)	98.0259
11/1/2017 18:04:01	PBW-301955	Ba (230.424 nm)	-0.0002 u (ppm)	13.02	-0.0002 (ppm)	1.4673
11/1/2017 18:04:01	PBW-301955	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-505.7360
11/1/2017 18:04:01	PBW-301955	Ca (227.547 nm)	-0.0211 u (ppm)	> 100.00	-0.0211 (ppm)	4.9299
11/1/2017 18:04:01	PBW-301955	Cd (214.439 nm)	-0.0001 u (ppm)	84.37	-0.0001 (ppm)	9.5753
11/1/2017 18:04:01	PBW-301955	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6666
11/1/2017 18:04:01	PBW-301955	Cr (267.716 nm)	-0.0002 u (ppm)	23.71	-0.0002 (ppm)	-9.4685
11/1/2017 18:04:01	PBW-301955	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	16.5850
11/1/2017 18:04:01	PBW-301955	Fe (234.350 nm)	-0.0054 u (ppm)	1.46	-0.0054 (ppm)	10.4033
11/1/2017 18:04:01	PBW-301955	K (766.491 nm)	-0.0050 u (ppm)	49.73	-0.0050 (ppm)	41.9858
11/1/2017 18:04:01	PBW-301955	Mg (279.078 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-4.4050
11/1/2017 18:04:01	PBW-301955	Mn (257.610 nm)	0.0000 (ppm)	62.53	0.0000 (ppm)	24.0694
11/1/2017 18:04:01	PBW-301955	Mo (202.032 nm)	-0.0006 u (ppm)	33.02	-0.0006 (ppm)	10.4247
11/1/2017 18:04:01	PBW-301955	Na (588.995 nm)	0.0054 (ppm)	13.12	0.0054 (ppm)	-5731.7666
11/1/2017 18:04:01	PBW-301955	Ni (230.299 nm)	0.0005 (ppm)	> 100.00	0.0005 (ppm)	-22.8739
11/1/2017 18:04:01	PBW-301955	Pb (220.353 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	5.4282
11/1/2017 18:04:01	PBW-301955	Sb (217.582 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	2.4155

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:04:01	PBW-301955	Se (196.026 nm)	-0.0030 u (ppm)	> 100.00	-0.0030 (ppm)	2.8657
11/1/2017 18:04:01	PBW-301955	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.6162
11/1/2017 18:04:01	PBW-301955	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.0215
11/1/2017 18:04:01	PBW-301955	Ti (336.122 nm)	0.0005 (ppm)	4.68	0.0005 (ppm)	-303.7606
11/1/2017 18:04:01	PBW-301955	Tl (351.923 nm)	-0.0030 u (ppm)	> 100.00	-0.0030 (ppm)	6.1599
11/1/2017 18:04:01	PBW-301955	V (292.401 nm)	-0.0002 u (ppm)	26.45	-0.0002 (ppm)	103.4196
11/1/2017 18:04:01	PBW-301955	Y (360.074 nm)	1.02 (Ratio)	0.83	1.02 (Ratio)	953920.80
11/1/2017 18:04:01	PBW-301955	Y_R (360.074 nm)	1.02 (Ratio)	0.83	1.02 (Ratio)	954111.96
11/1/2017 18:04:01	PBW-301955	Zn (213.857 nm)	0.0034 (ppm)	2.51	0.0034 (ppm)	67.8068
11/1/2017 18:07:20	LCSW-301955	Ag (328.068 nm)	0.0497 (ppm)	0.49	0.0497 (ppm)	3524.6041
11/1/2017 18:07:20	LCSW-301955	Al (394.401 nm)	1.8487 (ppm)	0.59	1.8487 (ppm)	24769.6167
11/1/2017 18:07:20	LCSW-301955	As (188.980 nm)	0.0405 (ppm)	1.78	0.0405 (ppm)	34.5486
11/1/2017 18:07:20	LCSW-301955	B (249.772 nm)	0.9642 (ppm)	0.43	0.9642 (ppm)	27721.6330
11/1/2017 18:07:20	LCSW-301955	Ba (230.424 nm)	2.0773 (ppm)	0.40	2.0773 (ppm)	72707.5603
11/1/2017 18:07:20	LCSW-301955	Be (313.107 nm)	0.0502 (ppm)	0.42	0.0502 (ppm)	75644.8425
11/1/2017 18:07:20	LCSW-301955	Ca (227.547 nm)	1.8483 (ppm)	2.43	1.8483 (ppm)	114.7171
11/1/2017 18:07:20	LCSW-301955	Cd (214.439 nm)	0.0513 (ppm)	0.64	0.0513 (ppm)	1178.3871
11/1/2017 18:07:20	LCSW-301955	Co (230.786 nm)	0.5138 (ppm)	0.37	0.5138 (ppm)	5286.5068
11/1/2017 18:07:20	LCSW-301955	Cr (267.716 nm)	0.1979 (ppm)	0.40	0.1979 (ppm)	10321.1823
11/1/2017 18:07:20	LCSW-301955	Cu (327.395 nm)	0.2438 (ppm)	0.87	0.2438 (ppm)	15336.7298
11/1/2017 18:07:20	LCSW-301955	Fe (234.350 nm)	0.9680 (ppm)	0.42	0.9680 (ppm)	11318.0146
11/1/2017 18:07:20	LCSW-301955	K (766.491 nm)	19.1774 (ppm)	0.61	19.1774 (ppm)	59268.9689
11/1/2017 18:07:20	LCSW-301955	Mg (279.078 nm)	1.9921 (ppm)	0.48	1.9921 (ppm)	4012.5371
11/1/2017 18:07:20	LCSW-301955	Mn (257.610 nm)	0.4950 (ppm)	0.43	0.4950 (ppm)	160167.1967
11/1/2017 18:07:20	LCSW-301955	Mo (202.032 nm)	0.4740 (ppm)	0.32	0.4740 (ppm)	5088.8688
11/1/2017 18:07:20	LCSW-301955	Na (588.995 nm)	19.5046 (ppm)	0.67	19.5046 (ppm)	889023.0464
11/1/2017 18:07:20	LCSW-301955	Ni (230.299 nm)	0.5127 (ppm)	0.41	0.5127 (ppm)	3531.7589
11/1/2017 18:07:20	LCSW-301955	Pb (220.353 nm)	0.5148 (ppm)	0.69	0.5148 (ppm)	1154.7728
11/1/2017 18:07:20	LCSW-301955	Sb (217.582 nm)	0.4947 (ppm)	0.84	0.4947 (ppm)	709.8629
11/1/2017 18:07:20	LCSW-301955	Se (196.026 nm)	1.0463 (ppm)	0.32	1.0463 (ppm)	919.5266
11/1/2017 18:07:20	LCSW-301955	Sn (189.925 nm)	5.0205 (ppm)	0.36	5.0205 (ppm)	6397.1631
11/1/2017 18:07:20	LCSW-301955	Sr (216.596 nm)	2.0387 (ppm)	0.18	2.0387 (ppm)	30410.2161
11/1/2017 18:07:20	LCSW-301955	Ti (336.122 nm)	0.4903 (ppm)	0.52	0.4903 (ppm)	107098.5952
11/1/2017 18:07:20	LCSW-301955	Tl (351.923 nm)	1.8791 (ppm)	0.31	1.8791 (ppm)	5349.5071
11/1/2017 18:07:20	LCSW-301955	V (292.401 nm)	0.4984 (ppm)	0.49	0.4984 (ppm)	18050.4891
11/1/2017 18:07:20	LCSW-301955	Y (360.074 nm)	0.99 (Ratio)	0.82	0.99 (Ratio)	922806.82
11/1/2017 18:07:20	LCSW-301955	Y_R (360.074 nm)	0.99 (Ratio)	0.81	0.99 (Ratio)	923071.03
11/1/2017 18:07:20	LCSW-301955	Zn (213.857 nm)	0.5043 (ppm)	0.25	0.5043 (ppm)	14620.5593
11/1/2017 18:10:40	R1710073-009 10X	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-120.2724
11/1/2017 18:10:40	R1710073-009 10X	Al (394.401 nm)	0.0111 (ppm)	4.96	0.0111 (ppm)	231.8794
11/1/2017 18:10:40	R1710073-009 10X	As (188.980 nm)	0.0035 (ppm)	46.69	0.0035 (ppm)	0.3704
11/1/2017 18:10:40	R1710073-009 10X	B (249.772 nm)	0.0429 (ppm)	3.54	0.0429 (ppm)	1320.5306
11/1/2017 18:10:40	R1710073-009 10X	Ba (230.424 nm)	0.3925 (ppm)	6.00	0.3925 (ppm)	13744.0991
11/1/2017 18:10:40	R1710073-009 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-504.6075
11/1/2017 18:10:40	R1710073-009 10X	Ca (227.547 nm)	6.4713 (ppm)	4.48	6.4713 (ppm)	386.2138
11/1/2017 18:10:40	R1710073-009 10X	Cd (214.439 nm)	0.0001 (ppm)	82.97	0.0001 (ppm)	14.4774
11/1/2017 18:10:40	R1710073-009 10X	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.3772
11/1/2017 18:10:40	R1710073-009 10X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.4899
11/1/2017 18:10:40	R1710073-009 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	21.8861
11/1/2017 18:10:40	R1710073-009 10X	Fe (234.350 nm)	5.6239 (ppm)	4.55	5.6239 (ppm)	65406.7089
11/1/2017 18:10:40	R1710073-009 10X	K (766.491 nm)	2.5378 (ppm)	4.11	2.5378 (ppm)	7893.2152

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:10:40	R1710073-009 10X	Mg (279.078 nm)	1.4319 (ppm)	4.37	1.4319 (ppm)	2882.1703
11/1/2017 18:10:40	R1710073-009 10X	Mn (257.610 nm)	0.0286 (ppm)	4.52	0.0286 (ppm)	9288.2592
11/1/2017 18:10:40	R1710073-009 10X	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	19.3877
11/1/2017 18:10:40	R1710073-009 10X	Na (588.995 nm)	5.2286 (ppm)	4.21	5.2286 (ppm)	233943.7608
11/1/2017 18:10:40	R1710073-009 10X	Ni (230.299 nm)	-0.0004 u (ppm)	70.84	-0.0004 (ppm)	-28.6941
11/1/2017 18:10:40	R1710073-009 10X	Pb (220.353 nm)	0.0203 (ppm)	5.54	0.0203 (ppm)	50.9227
11/1/2017 18:10:40	R1710073-009 10X	Sb (217.582 nm)	-0.0013 u (ppm)	10.35	-0.0013 (ppm)	2.2220
11/1/2017 18:10:40	R1710073-009 10X	Se (196.026 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	6.6455
11/1/2017 18:10:40	R1710073-009 10X	Sn (189.925 nm)	0.0019 (ppm)	63.02	0.0019 (ppm)	2.3023
11/1/2017 18:10:40	R1710073-009 10X	Sr (216.596 nm)	0.0445 (ppm)	6.50	0.0445 (ppm)	662.3874
11/1/2017 18:10:40	R1710073-009 10X	Ti (336.122 nm)	0.0004 (ppm)	13.88	0.0004 (ppm)	-326.2138
11/1/2017 18:10:40	R1710073-009 10X	Tl (351.923 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	12.2795
11/1/2017 18:10:40	R1710073-009 10X	V (292.401 nm)	0.0001 (ppm)	12.13	0.0001 (ppm)	115.3343
11/1/2017 18:10:40	R1710073-009 10X	Y (360.074 nm)	0.99 (Ratio)	0.88	0.99 (Ratio)	930884.49
11/1/2017 18:10:40	R1710073-009 10X	Y_R (360.074 nm)	0.99 (Ratio)	0.88	0.99 (Ratio)	931043.90
11/1/2017 18:10:40	R1710073-009 10X	Zn (213.857 nm)	0.0127 (ppm)	7.38	0.0127 (ppm)	339.0071
11/1/2017 18:13:59	R1710073-009L 10X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-123.4988
11/1/2017 18:13:59	R1710073-009L 10X	Al (394.401 nm)	0.0028 (ppm)	7.53	0.0028 (ppm)	120.7423
11/1/2017 18:13:59	R1710073-009L 10X	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.1793
11/1/2017 18:13:59	R1710073-009L 10X	B (249.772 nm)	0.0087 (ppm)	1.43	0.0087 (ppm)	339.4708
11/1/2017 18:13:59	R1710073-009L 10X	Ba (230.424 nm)	0.0911 (ppm)	0.52	0.0911 (ppm)	3196.5335
11/1/2017 18:13:59	R1710073-009L 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-511.3131
11/1/2017 18:13:59	R1710073-009L 10X	Ca (227.547 nm)	1.4348 (ppm)	3.99	1.4348 (ppm)	90.4321
11/1/2017 18:13:59	R1710073-009L 10X	Cd (214.439 nm)	0.0002 (ppm)	44.31	0.0002 (ppm)	17.1676
11/1/2017 18:13:59	R1710073-009L 10X	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.7726
11/1/2017 18:13:59	R1710073-009L 10X	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	3.7460
11/1/2017 18:13:59	R1710073-009L 10X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	25.8444
11/1/2017 18:13:59	R1710073-009L 10X	Fe (234.350 nm)	1.2656 (ppm)	0.46	1.2656 (ppm)	14775.0915
11/1/2017 18:13:59	R1710073-009L 10X	K (766.491 nm)	0.5617 (ppm)	1.27	0.5617 (ppm)	1791.6437
11/1/2017 18:13:59	R1710073-009L 10X	Mg (279.078 nm)	0.3240 (ppm)	0.37	0.3240 (ppm)	646.7681
11/1/2017 18:13:59	R1710073-009L 10X	Mn (257.610 nm)	0.0065 (ppm)	0.74	0.0065 (ppm)	2145.4160
11/1/2017 18:13:59	R1710073-009L 10X	Mo (202.032 nm)	-0.0004 u (ppm)	34.44	-0.0004 (ppm)	12.2137
11/1/2017 18:13:59	R1710073-009L 10X	Na (588.995 nm)	1.1878 (ppm)	0.92	1.1878 (ppm)	48524.5212
11/1/2017 18:13:59	R1710073-009L 10X	Ni (230.299 nm)	0.0007 (ppm)	> 100.00	0.0007 (ppm)	-21.0543
11/1/2017 18:13:59	R1710073-009L 10X	Pb (220.353 nm)	0.0051 (ppm)	35.34	0.0051 (ppm)	16.9526
11/1/2017 18:13:59	R1710073-009L 10X	Sb (217.582 nm)	-0.0011 u (ppm)	19.97	-0.0011 (ppm)	2.5114
11/1/2017 18:13:59	R1710073-009L 10X	Se (196.026 nm)	-0.0043 u (ppm)	34.17	-0.0043 (ppm)	1.8010
11/1/2017 18:13:59	R1710073-009L 10X	Sn (189.925 nm)	0.0007 (ppm)	98.63	0.0007 (ppm)	0.7591
11/1/2017 18:13:59	R1710073-009L 10X	Sr (216.596 nm)	0.0100 (ppm)	2.85	0.0100 (ppm)	148.2906
11/1/2017 18:13:59	R1710073-009L 10X	Ti (336.122 nm)	-0.0001 u (ppm)	83.14	-0.0001 (ppm)	-433.5499
11/1/2017 18:13:59	R1710073-009L 10X	Tl (351.923 nm)	-0.0026 u (ppm)	89.68	-0.0026 (ppm)	7.3391
11/1/2017 18:13:59	R1710073-009L 10X	V (292.401 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	110.3434
11/1/2017 18:13:59	R1710073-009L 10X	Y (360.074 nm)	1.00 (Ratio)	0.88	1.00 (Ratio)	938526.78
11/1/2017 18:13:59	R1710073-009L 10X	Y_R (360.074 nm)	1.00 (Ratio)	0.89	1.00 (Ratio)	938629.67
11/1/2017 18:13:59	R1710073-009L 10X	Zn (213.857 nm)	0.0061 (ppm)	0.77	0.0061 (ppm)	147.0605
11/1/2017 18:17:19	PBW-301957	Ag (328.068 nm)	0.0001 (ppm)	88.20	0.0001 (ppm)	-120.5472
11/1/2017 18:17:19	PBW-301957	Al (394.401 nm)	-0.0006 u (ppm)	57.17	-0.0006 (ppm)	75.3383
11/1/2017 18:17:19	PBW-301957	As (188.980 nm)	0.0021 (ppm)	27.92	0.0021 (ppm)	-0.9303
11/1/2017 18:17:19	PBW-301957	B (249.772 nm)	-0.0007 u (ppm)	8.30	-0.0007 (ppm)	72.1509
11/1/2017 18:17:19	PBW-301957	Ba (230.424 nm)	-0.0001 u (ppm)	45.21	-0.0001 (ppm)	4.4715
11/1/2017 18:17:19	PBW-301957	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-512.8498

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:17:19	PBW-301957	Ca (227.547 nm)	-0.0433 u (ppm)	67.49	-0.0433 (ppm)	3.6263
11/1/2017 18:17:19	PBW-301957	Cd (214.439 nm)	-0.0001 u (ppm)	61.17	-0.0001 (ppm)	9.3260
11/1/2017 18:17:19	PBW-301957	Co (230.786 nm)	-0.0003 u (ppm)	23.36	-0.0003 (ppm)	-4.0050
11/1/2017 18:17:19	PBW-301957	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-5.1879
11/1/2017 18:17:19	PBW-301957	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	14.8441
11/1/2017 18:17:19	PBW-301957	Fe (234.350 nm)	-0.0046 u (ppm)	1.11	-0.0046 (ppm)	19.5848
11/1/2017 18:17:19	PBW-301957	K (766.491 nm)	-0.0144 u (ppm)	65.91	-0.0144 (ppm)	13.1626
11/1/2017 18:17:19	PBW-301957	Mg (279.078 nm)	0.0013 (ppm)	25.55	0.0013 (ppm)	-4.3479
11/1/2017 18:17:19	PBW-301957	Mn (257.610 nm)	0.0000 (ppm)	25.43	0.0000 (ppm)	39.3952
11/1/2017 18:17:19	PBW-301957	Mo (202.032 nm)	-0.0006 u (ppm)	47.44	-0.0006 (ppm)	9.8686
11/1/2017 18:17:19	PBW-301957	Na (588.995 nm)	0.0061 (ppm)	16.03	0.0061 (ppm)	-5700.2715
11/1/2017 18:17:19	PBW-301957	Ni (230.299 nm)	0.0010 (ppm)	39.80	0.0010 (ppm)	-19.2652
11/1/2017 18:17:19	PBW-301957	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.7634
11/1/2017 18:17:19	PBW-301957	Sb (217.582 nm)	-0.0015 u (ppm)	81.43	-0.0015 (ppm)	2.0326
11/1/2017 18:17:19	PBW-301957	Se (196.026 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	3.8893
11/1/2017 18:17:19	PBW-301957	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.3870
11/1/2017 18:17:19	PBW-301957	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.4204
11/1/2017 18:17:19	PBW-301957	Ti (336.122 nm)	0.0003 (ppm)	10.44	0.0003 (ppm)	-346.1270
11/1/2017 18:17:19	PBW-301957	Tl (351.923 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	8.8577
11/1/2017 18:17:19	PBW-301957	V (292.401 nm)	-0.0002 u (ppm)	48.07	-0.0002 (ppm)	102.4398
11/1/2017 18:17:19	PBW-301957	Y (360.074 nm)	1.02 (Ratio)	0.74	1.02 (Ratio)	951333.68
11/1/2017 18:17:19	PBW-301957	Y_R (360.074 nm)	1.02 (Ratio)	0.74	1.02 (Ratio)	951527.59
11/1/2017 18:17:19	PBW-301957	Zn (213.857 nm)	0.0013 (ppm)	2.06	0.0013 (ppm)	7.7272
11/1/2017 18:20:38	LCSW-301957	Ag (328.068 nm)	0.0495 (ppm)	0.65	0.0495 (ppm)	3507.0741
11/1/2017 18:20:38	LCSW-301957	Al (394.401 nm)	1.8455 (ppm)	0.53	1.8455 (ppm)	24726.9979
11/1/2017 18:20:38	LCSW-301957	As (188.980 nm)	0.0392 (ppm)	8.91	0.0392 (ppm)	33.4097
11/1/2017 18:20:38	LCSW-301957	B (249.772 nm)	0.9607 (ppm)	0.38	0.9607 (ppm)	27622.5629
11/1/2017 18:20:38	LCSW-301957	Ba (230.424 nm)	2.0643 (ppm)	0.36	2.0643 (ppm)	72253.2623
11/1/2017 18:20:38	LCSW-301957	Be (313.107 nm)	0.0501 (ppm)	0.39	0.0501 (ppm)	75492.4554
11/1/2017 18:20:38	LCSW-301957	Ca (227.547 nm)	1.8835 (ppm)	3.28	1.8835 (ppm)	116.7820
11/1/2017 18:20:38	LCSW-301957	Cd (214.439 nm)	0.0513 (ppm)	0.07	0.0513 (ppm)	1178.0855
11/1/2017 18:20:38	LCSW-301957	Co (230.786 nm)	0.5125 (ppm)	0.31	0.5125 (ppm)	5273.8325
11/1/2017 18:20:38	LCSW-301957	Cr (267.716 nm)	0.1976 (ppm)	0.35	0.1976 (ppm)	10303.9007
11/1/2017 18:20:38	LCSW-301957	Cu (327.395 nm)	0.2441 (ppm)	0.89	0.2441 (ppm)	15351.2367
11/1/2017 18:20:38	LCSW-301957	Fe (234.350 nm)	0.9679 (ppm)	0.45	0.9679 (ppm)	11316.4380
11/1/2017 18:20:38	LCSW-301957	K (766.491 nm)	19.1272 (ppm)	0.63	19.1272 (ppm)	59114.0219
11/1/2017 18:20:38	LCSW-301957	Mg (279.078 nm)	1.9863 (ppm)	0.49	1.9863 (ppm)	4000.9858
11/1/2017 18:20:38	LCSW-301957	Mn (257.610 nm)	0.4938 (ppm)	0.32	0.4938 (ppm)	159806.2551
11/1/2017 18:20:38	LCSW-301957	Mo (202.032 nm)	0.4733 (ppm)	0.30	0.4733 (ppm)	5081.1954
11/1/2017 18:20:38	LCSW-301957	Na (588.995 nm)	19.4829 (ppm)	0.60	19.4829 (ppm)	888027.8572
11/1/2017 18:20:38	LCSW-301957	Ni (230.299 nm)	0.5122 (ppm)	0.78	0.5122 (ppm)	3527.9757
11/1/2017 18:20:38	LCSW-301957	Pb (220.353 nm)	0.5115 (ppm)	0.42	0.5115 (ppm)	1147.4987
11/1/2017 18:20:38	LCSW-301957	Sb (217.582 nm)	0.4915 (ppm)	0.44	0.4915 (ppm)	705.3658
11/1/2017 18:20:38	LCSW-301957	Se (196.026 nm)	1.0312 (ppm)	0.31	1.0312 (ppm)	906.2947
11/1/2017 18:20:38	LCSW-301957	Sn (189.925 nm)	5.0000 (ppm)	0.42	5.0000 (ppm)	6370.9621
11/1/2017 18:20:38	LCSW-301957	Sr (216.596 nm)	2.0285 (ppm)	0.20	2.0285 (ppm)	30258.0767
11/1/2017 18:20:38	LCSW-301957	Ti (336.122 nm)	0.4902 (ppm)	0.55	0.4902 (ppm)	107075.0274
11/1/2017 18:20:38	LCSW-301957	Tl (351.923 nm)	1.8724 (ppm)	0.64	1.8724 (ppm)	5330.4065
11/1/2017 18:20:38	LCSW-301957	V (292.401 nm)	0.4974 (ppm)	0.30	0.4974 (ppm)	18016.2447
11/1/2017 18:20:38	LCSW-301957	Y (360.074 nm)	0.98 (Ratio)	0.87	0.98 (Ratio)	921310.21
11/1/2017 18:20:38	LCSW-301957	Y_R (360.074 nm)	0.98 (Ratio)	0.86	0.98 (Ratio)	921628.04

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:20:38	LCSW-301957	Zn (213.857 nm)	0.5022 (ppm)	0.58	0.5022 (ppm)	14560.7737
11/1/2017 18:23:57	R1710031-019	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-120.7739
11/1/2017 18:23:57	R1710031-019	Al (394.401 nm)	0.0420 (ppm)	0.53	0.0420 (ppm)	643.6436
11/1/2017 18:23:57	R1710031-019	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.7603
11/1/2017 18:23:57	R1710031-019	B (249.772 nm)	0.0002 (ppm)	89.22	0.0002 (ppm)	96.7943
11/1/2017 18:23:57	R1710031-019	Ba (230.424 nm)	0.0010 (ppm)	9.44	0.0010 (ppm)	41.8910
11/1/2017 18:23:57	R1710031-019	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-506.6303
11/1/2017 18:23:57	R1710031-019	Ca (227.547 nm)	0.2326 (ppm)	8.06	0.2326 (ppm)	19.8295
11/1/2017 18:23:57	R1710031-019	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	10.5549
11/1/2017 18:23:57	R1710031-019	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.4416
11/1/2017 18:23:57	R1710031-019	Cr (267.716 nm)	0.0003 (ppm)	40.85	0.0003 (ppm)	13.8731
11/1/2017 18:23:57	R1710031-019	Cu (327.395 nm)	0.0005 (ppm)	3.30	0.0005 (ppm)	50.6900
11/1/2017 18:23:57	R1710031-019	Fe (234.350 nm)	0.0004 (ppm)	19.75	0.0004 (ppm)	77.8914
11/1/2017 18:23:57	R1710031-019	K (766.491 nm)	0.0401 (ppm)	19.08	0.0401 (ppm)	181.2850
11/1/2017 18:23:57	R1710031-019	Mg (279.078 nm)	0.0256 (ppm)	1.57	0.0256 (ppm)	44.5688
11/1/2017 18:23:57	R1710031-019	Mn (257.610 nm)	0.0001 (ppm)	6.72	0.0001 (ppm)	53.2509
11/1/2017 18:23:57	R1710031-019	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	18.3649
11/1/2017 18:23:57	R1710031-019	Na (588.995 nm)	0.5902 (ppm)	0.58	0.5902 (ppm)	21103.6585
11/1/2017 18:23:57	R1710031-019	Ni (230.299 nm)	-0.0006 u (ppm)	39.81	-0.0006 (ppm)	-30.5210
11/1/2017 18:23:57	R1710031-019	Pb (220.353 nm)	-0.0011 u (ppm)	94.76	-0.0011 (ppm)	3.2240
11/1/2017 18:23:57	R1710031-019	Sb (217.582 nm)	-0.0020 u (ppm)	71.82	-0.0020 (ppm)	1.3217
11/1/2017 18:23:57	R1710031-019	Se (196.026 nm)	-0.0039 u (ppm)	82.79	-0.0039 (ppm)	2.1302
11/1/2017 18:23:57	R1710031-019	Sn (189.925 nm)	-0.0002 u (ppm)	36.69	-0.0002 (ppm)	-0.3602
11/1/2017 18:23:57	R1710031-019	Sr (216.596 nm)	0.0008 (ppm)	32.74	0.0008 (ppm)	10.1701
11/1/2017 18:23:57	R1710031-019	Ti (336.122 nm)	0.0007 (ppm)	2.46	0.0007 (ppm)	-271.3162
11/1/2017 18:23:57	R1710031-019	Tl (351.923 nm)	-0.0025 u (ppm)	88.19	-0.0025 (ppm)	7.6520
11/1/2017 18:23:57	R1710031-019	V (292.401 nm)	-0.0001 u (ppm)	91.83	-0.0001 (ppm)	105.5462
11/1/2017 18:23:57	R1710031-019	Y (360.074 nm)	1.01 (Ratio)	0.83	1.01 (Ratio)	949967.70
11/1/2017 18:23:57	R1710031-019	Y_R (360.074 nm)	1.02 (Ratio)	0.83	1.02 (Ratio)	950323.86
11/1/2017 18:23:57	R1710031-019	Zn (213.857 nm)	0.0021 (ppm)	3.88	0.0021 (ppm)	30.6982
11/1/2017 18:27:16	R1710031-019L	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-120.9468
11/1/2017 18:27:16	R1710031-019L	Al (394.401 nm)	0.0077 (ppm)	7.65	0.0077 (ppm)	185.6451
11/1/2017 18:27:16	R1710031-019L	As (188.980 nm)	0.0020 (ppm)	> 100.00	0.0020 (ppm)	-1.0075
11/1/2017 18:27:16	R1710031-019L	B (249.772 nm)	-0.0009 u (ppm)	9.84	-0.0009 (ppm)	64.9636
11/1/2017 18:27:16	R1710031-019L	Ba (230.424 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	9.6863
11/1/2017 18:27:16	R1710031-019L	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-512.6424
11/1/2017 18:27:16	R1710031-019L	Ca (227.547 nm)	0.0229 (ppm)	> 100.00	0.0229 (ppm)	7.5147
11/1/2017 18:27:16	R1710031-019L	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.7991
11/1/2017 18:27:16	R1710031-019L	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-2.8577
11/1/2017 18:27:16	R1710031-019L	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.1217
11/1/2017 18:27:16	R1710031-019L	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	21.7228
11/1/2017 18:27:16	R1710031-019L	Fe (234.350 nm)	-0.0027 u (ppm)	13.02	-0.0027 (ppm)	41.2311
11/1/2017 18:27:16	R1710031-019L	K (766.491 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	53.0361
11/1/2017 18:27:16	R1710031-019L	Mg (279.078 nm)	0.0060 (ppm)	22.17	0.0060 (ppm)	4.9847
11/1/2017 18:27:16	R1710031-019L	Mn (257.610 nm)	0.0000 (ppm)	12.15	0.0000 (ppm)	19.0389
11/1/2017 18:27:16	R1710031-019L	Mo (202.032 nm)	-0.0004 u (ppm)	37.20	-0.0004 (ppm)	12.4407
11/1/2017 18:27:16	R1710031-019L	Na (588.995 nm)	0.1132 (ppm)	0.21	0.1132 (ppm)	-783.9166
11/1/2017 18:27:16	R1710031-019L	Ni (230.299 nm)	0.0004 (ppm)	79.05	0.0004 (ppm)	-23.5714
11/1/2017 18:27:16	R1710031-019L	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.9742
11/1/2017 18:27:16	R1710031-019L	Sb (217.582 nm)	-0.0019 u (ppm)	84.26	-0.0019 (ppm)	1.3741
11/1/2017 18:27:16	R1710031-019L	Se (196.026 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	3.8269

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:27:16	R1710031-019L	Sn (189.925 nm)	0.0007 (ppm)	42.79	0.0007 (ppm)	0.7839
11/1/2017 18:27:16	R1710031-019L	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.3391
11/1/2017 18:27:16	R1710031-019L	Ti (336.122 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-434.3284
11/1/2017 18:27:16	R1710031-019L	Tl (351.923 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	11.2287
11/1/2017 18:27:16	R1710031-019L	V (292.401 nm)	-0.0002 u (ppm)	99.57	-0.0002 (ppm)	103.3285
11/1/2017 18:27:16	R1710031-019L	Y (360.074 nm)	1.01 (Ratio)	1.00	1.01 (Ratio)	944271.92
11/1/2017 18:27:16	R1710031-019L	Y_R (360.074 nm)	1.01 (Ratio)	1.00	1.01 (Ratio)	944655.80
11/1/2017 18:27:16	R1710031-019L	Zn (213.857 nm)	0.0068 (ppm)	2.48	0.0068 (ppm)	165.8848
11/1/2017 18:30:35	PBW-301960	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-128.6120
11/1/2017 18:30:35	PBW-301960	Al (394.401 nm)	0.0022 (ppm)	15.74	0.0022 (ppm)	112.9266
11/1/2017 18:30:35	PBW-301960	As (188.980 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-1.4937
11/1/2017 18:30:35	PBW-301960	B (249.772 nm)	-0.0005 u (ppm)	46.74	-0.0005 (ppm)	77.5436
11/1/2017 18:30:35	PBW-301960	Ba (230.424 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	10.0936
11/1/2017 18:30:35	PBW-301960	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-511.9764
11/1/2017 18:30:35	PBW-301960	Ca (227.547 nm)	0.0303 (ppm)	27.55	0.0303 (ppm)	7.9521
11/1/2017 18:30:35	PBW-301960	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.4570
11/1/2017 18:30:35	PBW-301960	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.2638
11/1/2017 18:30:35	PBW-301960	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-0.7614
11/1/2017 18:30:35	PBW-301960	Cu (327.395 nm)	0.0005 (ppm)	15.97	0.0005 (ppm)	51.8854
11/1/2017 18:30:35	PBW-301960	Fe (234.350 nm)	0.0007 (ppm)	9.42	0.0007 (ppm)	81.4113
11/1/2017 18:30:35	PBW-301960	K (766.491 nm)	0.1017 (ppm)	4.59	0.1017 (ppm)	371.5038
11/1/2017 18:30:35	PBW-301960	Mg (279.078 nm)	0.0042 (ppm)	47.19	0.0042 (ppm)	1.3816
11/1/2017 18:30:35	PBW-301960	Mn (257.610 nm)	0.0005 (ppm)	1.30	0.0005 (ppm)	203.6624
11/1/2017 18:30:35	PBW-301960	Mo (202.032 nm)	-0.0006 u (ppm)	31.08	-0.0006 (ppm)	10.7719
11/1/2017 18:30:35	PBW-301960	Na (588.995 nm)	0.0396 (ppm)	3.36	0.0396 (ppm)	-4161.3204
11/1/2017 18:30:35	PBW-301960	Ni (230.299 nm)	0.0011 (ppm)	42.56	0.0011 (ppm)	-18.1061
11/1/2017 18:30:35	PBW-301960	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.1489
11/1/2017 18:30:35	PBW-301960	Sb (217.582 nm)	-0.0017 u (ppm)	72.23	-0.0017 (ppm)	1.6890
11/1/2017 18:30:35	PBW-301960	Se (196.026 nm)	-0.0030 u (ppm)	48.03	-0.0030 (ppm)	2.9190
11/1/2017 18:30:35	PBW-301960	Sn (189.925 nm)	0.0009 (ppm)	33.88	0.0009 (ppm)	0.9765
11/1/2017 18:30:35	PBW-301960	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.2027
11/1/2017 18:30:35	PBW-301960	Ti (336.122 nm)	0.0005 (ppm)	5.99	0.0005 (ppm)	-315.5426
11/1/2017 18:30:35	PBW-301960	Tl (351.923 nm)	-0.0018 u (ppm)	73.49	-0.0018 (ppm)	9.4947
11/1/2017 18:30:35	PBW-301960	V (292.401 nm)	-0.0002 u (ppm)	64.79	-0.0002 (ppm)	101.7021
11/1/2017 18:30:35	PBW-301960	Y (360.074 nm)	1.02 (Ratio)	0.96	1.02 (Ratio)	955206.80
11/1/2017 18:30:35	PBW-301960	Y_R (360.074 nm)	1.02 (Ratio)	0.96	1.02 (Ratio)	955692.64
11/1/2017 18:30:35	PBW-301960	Zn (213.857 nm)	0.0049 (ppm)	1.10	0.0049 (ppm)	112.8568
11/1/2017 18:33:53	LCSW-301960	Ag (328.068 nm)	0.0495 (ppm)	0.51	0.0495 (ppm)	3508.9364
11/1/2017 18:33:53	LCSW-301960	Al (394.401 nm)	1.8544 (ppm)	0.64	1.8544 (ppm)	24846.4771
11/1/2017 18:33:53	LCSW-301960	As (188.980 nm)	0.0403 (ppm)	6.58	0.0403 (ppm)	34.3584
11/1/2017 18:33:53	LCSW-301960	B (249.772 nm)	0.9628 (ppm)	0.45	0.9628 (ppm)	27680.4447
11/1/2017 18:33:53	LCSW-301960	Ba (230.424 nm)	2.0637 (ppm)	0.36	2.0637 (ppm)	72231.8925
11/1/2017 18:33:53	LCSW-301960	Be (313.107 nm)	0.0500 (ppm)	0.54	0.0500 (ppm)	75382.5722
11/1/2017 18:33:53	LCSW-301960	Ca (227.547 nm)	1.9143 (ppm)	0.40	1.9143 (ppm)	118.5908
11/1/2017 18:33:53	LCSW-301960	Cd (214.439 nm)	0.0508 (ppm)	0.28	0.0508 (ppm)	1168.8233
11/1/2017 18:33:53	LCSW-301960	Co (230.786 nm)	0.5114 (ppm)	0.50	0.5114 (ppm)	5261.7329
11/1/2017 18:33:53	LCSW-301960	Cr (267.716 nm)	0.1974 (ppm)	0.44	0.1974 (ppm)	10295.5575
11/1/2017 18:33:53	LCSW-301960	Cu (327.395 nm)	0.2444 (ppm)	0.41	0.2444 (ppm)	15371.7211
11/1/2017 18:33:53	LCSW-301960	Fe (234.350 nm)	0.9728 (ppm)	0.48	0.9728 (ppm)	11373.5293
11/1/2017 18:33:53	LCSW-301960	K (766.491 nm)	19.3742 (ppm)	0.71	19.3742 (ppm)	59876.6084
11/1/2017 18:33:53	LCSW-301960	Mg (279.078 nm)	1.9894 (ppm)	0.46	1.9894 (ppm)	4007.0483

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:33:53	LCSW-301960	Mn (257.610 nm)	0.4945 (ppm)	0.50	0.4945 (ppm)	160003.2399
11/1/2017 18:33:53	LCSW-301960	Mo (202.032 nm)	0.4731 (ppm)	0.31	0.4731 (ppm)	5078.9978
11/1/2017 18:33:53	LCSW-301960	Na (588.995 nm)	19.6614 (ppm)	0.81	19.6614 (ppm)	896220.5476
11/1/2017 18:33:53	LCSW-301960	Ni (230.299 nm)	0.5088 (ppm)	0.48	0.5088 (ppm)	3504.5028
11/1/2017 18:33:53	LCSW-301960	Pb (220.353 nm)	0.5102 (ppm)	0.19	0.5102 (ppm)	1144.4422
11/1/2017 18:33:53	LCSW-301960	Sb (217.582 nm)	0.4932 (ppm)	1.63	0.4932 (ppm)	707.6872
11/1/2017 18:33:53	LCSW-301960	Se (196.026 nm)	1.0284 (ppm)	0.30	1.0284 (ppm)	903.8955
11/1/2017 18:33:53	LCSW-301960	Sn (189.925 nm)	5.0157 (ppm)	0.56	5.0157 (ppm)	6390.9792
11/1/2017 18:33:53	LCSW-301960	Sr (216.596 nm)	2.0256 (ppm)	0.62	2.0256 (ppm)	30214.9579
11/1/2017 18:33:53	LCSW-301960	Ti (336.122 nm)	0.4913 (ppm)	0.51	0.4913 (ppm)	107331.8187
11/1/2017 18:33:53	LCSW-301960	Tl (351.923 nm)	1.8734 (ppm)	0.52	1.8734 (ppm)	5333.4299
11/1/2017 18:33:53	LCSW-301960	V (292.401 nm)	0.4973 (ppm)	0.49	0.4973 (ppm)	18009.7080
11/1/2017 18:33:53	LCSW-301960	Y (360.074 nm)	0.99 (Ratio)	0.97	0.99 (Ratio)	925696.45
11/1/2017 18:33:53	LCSW-301960	Y_R (360.074 nm)	0.99 (Ratio)	0.97	0.99 (Ratio)	926188.29
11/1/2017 18:33:53	LCSW-301960	Zn (213.857 nm)	0.5062 (ppm)	0.68	0.5062 (ppm)	14677.4730
11/1/2017 18:37:12	Continuing Calibration Verification	Ag (328.068 nm)	0.4908 (ppm)	0.56	0.4908 (ppm)	35930.1062
11/1/2017 18:37:12	Continuing Calibration Verification	Al (394.401 nm)	9.5721 (ppm)	0.65	9.5721 (ppm)	127904.2102
11/1/2017 18:37:12	Continuing Calibration Verification	As (188.980 nm)	0.9720 (ppm)	1.44	0.9720 (ppm)	896.7329
11/1/2017 18:37:12	Continuing Calibration Verification	B (249.772 nm)	2.4184 (ppm)	0.40	2.4184 (ppm)	69396.0494
11/1/2017 18:37:12	Continuing Calibration Verification	Ba (230.424 nm)	10.3041 (ppm)	0.24	10.3041 (ppm)	360627.4244
11/1/2017 18:37:12	Continuing Calibration Verification	Be (313.107 nm)	0.2540 (ppm)	0.53	0.2540 (ppm)	384719.2060
11/1/2017 18:37:12	Continuing Calibration Verification	Ca (227.547 nm)	24.2740 (ppm)	0.73	24.2740 (ppm)	1431.7229
11/1/2017 18:37:12	Continuing Calibration Verification	Cd (214.439 nm)	0.4985 (ppm)	0.36	0.4985 (ppm)	11349.0478
11/1/2017 18:37:12	Continuing Calibration Verification	Co (230.786 nm)	2.5943 (ppm)	0.46	2.5943 (ppm)	26699.3835
11/1/2017 18:37:12	Continuing Calibration Verification	Cr (267.716 nm)	0.5045 (ppm)	0.33	0.5045 (ppm)	26312.9360
11/1/2017 18:37:12	Continuing Calibration Verification	Cu (327.395 nm)	1.2074 (ppm)	1.04	1.2074 (ppm)	75859.7230
11/1/2017 18:37:12	Continuing Calibration Verification	Fe (234.350 nm)	4.8580 (ppm)	0.40	4.8580 (ppm)	56508.5311
11/1/2017 18:37:12	Continuing Calibration Verification	K (766.491 nm)	24.7855 (ppm)	0.76	24.7855 (ppm)	76584.3568
11/1/2017 18:37:12	Continuing Calibration Verification	Mg (279.078 nm)	24.9802 (ppm)	0.49	24.9802 (ppm)	50397.6750
11/1/2017 18:37:12	Continuing Calibration Verification	Mn (257.610 nm)	0.7548 (ppm)	0.39	0.7548 (ppm)	244241.9388
11/1/2017 18:37:12	Continuing Calibration Verification	Mo (202.032 nm)	2.3978 (ppm)	0.38	2.3978 (ppm)	25672.8129
11/1/2017 18:37:12	Continuing Calibration Verification	Na (588.995 nm)	24.8571 (ppm)	0.85	24.8571 (ppm)	1134633.9440
11/1/2017 18:37:12	Continuing Calibration Verification	Ni (230.299 nm)	2.0392 (ppm)	0.47	2.0392 (ppm)	14123.9914
11/1/2017 18:37:12	Continuing Calibration Verification	Pb (220.353 nm)	0.4985 (ppm)	0.91	0.4985 (ppm)	1118.3447
11/1/2017 18:37:12	Continuing Calibration Verification	Sb (217.582 nm)	4.8980 (ppm)	0.57	4.8980 (ppm)	6991.6250
11/1/2017 18:37:12	Continuing Calibration Verification	Se (196.026 nm)	0.4851 (ppm)	0.40	0.4851 (ppm)	429.3102
11/1/2017 18:37:12	Continuing Calibration Verification	Sn (189.925 nm)	5.0514 (ppm)	0.57	5.0514 (ppm)	6436.4847
11/1/2017 18:37:12	Continuing Calibration Verification	Sr (216.596 nm)	2.5101 (ppm)	0.49	2.5101 (ppm)	37443.4222
11/1/2017 18:37:12	Continuing Calibration Verification	Ti (336.122 nm)	2.5061 (ppm)	0.68	2.5061 (ppm)	549168.0378
11/1/2017 18:37:12	Continuing Calibration Verification	Tl (351.923 nm)	0.9905 (ppm)	0.30	0.9905 (ppm)	2826.8359
11/1/2017 18:37:12	Continuing Calibration Verification	V (292.401 nm)	2.5287 (ppm)	0.41	2.5287 (ppm)	91134.3237
11/1/2017 18:37:12	Continuing Calibration Verification	Y (360.074 nm)	0.95 (Ratio)	1.01	0.95 (Ratio)	891545.88
11/1/2017 18:37:12	Continuing Calibration Verification	Y_R (360.074 nm)	0.95 (Ratio)	1.00	0.95 (Ratio)	892051.51
11/1/2017 18:37:12	Continuing Calibration Verification	Zn (213.857 nm)	1.0017 (ppm)	0.34	1.0017 (ppm)	29074.8773
11/1/2017 18:40:31	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-120.8394
11/1/2017 18:40:31	Continuing Calibration Blank	Al (394.401 nm)	-0.0009 u (ppm)	55.92	-0.0009 (ppm)	71.4503
11/1/2017 18:40:31	Continuing Calibration Blank	As (188.980 nm)	0.0016 (ppm)	> 100.00	0.0016 (ppm)	-1.4125
11/1/2017 18:40:31	Continuing Calibration Blank	B (249.772 nm)	0.0011 (ppm)	41.47	0.0011 (ppm)	122.6164
11/1/2017 18:40:31	Continuing Calibration Blank	Ba (230.424 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	10.4816
11/1/2017 18:40:31	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-513.3411
11/1/2017 18:40:31	Continuing Calibration Blank	Ca (227.547 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	6.1006

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:40:31	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	35.83	0.0001 (ppm)	14.6997
11/1/2017 18:40:31	Continuing Calibration Blank	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.4398
11/1/2017 18:40:31	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.5116
11/1/2017 18:40:31	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	21.2398
11/1/2017 18:40:31	Continuing Calibration Blank	Fe (234.350 nm)	0.0041 (ppm)	6.76	0.0041 (ppm)	120.9248
11/1/2017 18:40:31	Continuing Calibration Blank	K (766.491 nm)	0.0154 (ppm)	46.10	0.0154 (ppm)	104.9221
11/1/2017 18:40:31	Continuing Calibration Blank	Mg (279.078 nm)	0.0022 (ppm)	33.38	0.0022 (ppm)	-2.6066
11/1/2017 18:40:31	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 (ppm)	15.40	0.0000 (ppm)	22.8633
11/1/2017 18:40:31	Continuing Calibration Blank	Mo (202.032 nm)	0.0015 (ppm)	8.11	0.0015 (ppm)	33.2400
11/1/2017 18:40:31	Continuing Calibration Blank	Na (588.995 nm)	0.0016 (ppm)	76.94	0.0016 (ppm)	-5906.4138
11/1/2017 18:40:31	Continuing Calibration Blank	Ni (230.299 nm)	0.0006 (ppm)	47.56	0.0006 (ppm)	-21.8214
11/1/2017 18:40:31	Continuing Calibration Blank	Pb (220.353 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	4.4165
11/1/2017 18:40:31	Continuing Calibration Blank	Sb (217.582 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	4.9267
11/1/2017 18:40:31	Continuing Calibration Blank	Se (196.026 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	6.9723
11/1/2017 18:40:31	Continuing Calibration Blank	Sn (189.925 nm)	0.0006 (ppm)	10.39	0.0006 (ppm)	0.6147
11/1/2017 18:40:31	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.5392
11/1/2017 18:40:31	Continuing Calibration Blank	Ti (336.122 nm)	0.0007 (ppm)	7.06	0.0007 (ppm)	-276.2754
11/1/2017 18:40:31	Continuing Calibration Blank	Tl (351.923 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	14.2814
11/1/2017 18:40:31	Continuing Calibration Blank	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	110.8571
11/1/2017 18:40:31	Continuing Calibration Blank	Y (360.074 nm)	1.00 (Ratio)	0.89	1.00 (Ratio)	933844.62
11/1/2017 18:40:31	Continuing Calibration Blank	Y_R (360.074 nm)	1.00 (Ratio)	0.89	1.00 (Ratio)	934176.61
11/1/2017 18:40:31	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u (ppm)	78.91	-0.0001 (ppm)	-33.6876
11/1/2017 18:43:49	R1710054-001	Ag (328.068 nm)	0.0001 (ppm)	72.13	0.0001 (ppm)	-121.5990
11/1/2017 18:43:49	R1710054-001	Al (394.401 nm)	0.0212 (ppm)	2.52	0.0212 (ppm)	366.3427
11/1/2017 18:43:49	R1710054-001	As (188.980 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	-1.3360
11/1/2017 18:43:49	R1710054-001	B (249.772 nm)	0.0353 (ppm)	0.85	0.0353 (ppm)	1101.1478
11/1/2017 18:43:49	R1710054-001	Ba (230.424 nm)	0.0707 (ppm)	0.50	0.0707 (ppm)	2481.0870
11/1/2017 18:43:49	R1710054-001	Be (313.107 nm)	0.0000 (ppm)	33.92	0.0000 (ppm)	-526.0843
11/1/2017 18:43:49	R1710054-001	Ca (227.547 nm)	35.7280 (ppm)	0.70	35.7280 (ppm)	2104.3896
11/1/2017 18:43:49	R1710054-001	Cd (214.439 nm)	-0.0001 u (ppm)	27.93	-0.0001 (ppm)	10.7039
11/1/2017 18:43:49	R1710054-001	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.7469
11/1/2017 18:43:49	R1710054-001	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-6.5194
11/1/2017 18:43:49	R1710054-001	Cu (327.395 nm)	0.0001 (ppm)	89.90	0.0001 (ppm)	29.6267
11/1/2017 18:43:49	R1710054-001	Fe (234.350 nm)	0.0625 (ppm)	0.60	0.0625 (ppm)	799.2359
11/1/2017 18:43:49	R1710054-001	K (766.491 nm)	3.9792 (ppm)	0.73	3.9792 (ppm)	12343.6025
11/1/2017 18:43:49	R1710054-001	Mg (279.078 nm)	19.5509 (ppm)	0.39	19.5509 (ppm)	39442.4921
11/1/2017 18:43:49	R1710054-001	Mn (257.610 nm)	0.0026 (ppm)	0.71	0.0026 (ppm)	880.9878
11/1/2017 18:43:49	R1710054-001	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	15.0291
11/1/2017 18:43:49	R1710054-001	Na (588.995 nm)	46.9986 (ppm)	0.85	46.9986 (ppm)	2150638.3581
11/1/2017 18:43:49	R1710054-001	Ni (230.299 nm)	-0.0022 u (ppm)	51.47	-0.0022 (ppm)	-41.0241
11/1/2017 18:43:49	R1710054-001	Pb (220.353 nm)	-0.0019 u (ppm)	46.89	-0.0019 (ppm)	1.3165
11/1/2017 18:43:49	R1710054-001	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	3.5611
11/1/2017 18:43:49	R1710054-001	Se (196.026 nm)	0.0011 (ppm)	> 100.00	0.0011 (ppm)	6.4636
11/1/2017 18:43:49	R1710054-001	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-0.8150
11/1/2017 18:43:49	R1710054-001	Sr (216.596 nm)	0.3841 (ppm)	0.60	0.3841 (ppm)	5728.4007
11/1/2017 18:43:49	R1710054-001	Ti (336.122 nm)	0.0007 (ppm)	12.67	0.0007 (ppm)	-255.4899
11/1/2017 18:43:49	R1710054-001	Tl (351.923 nm)	-0.0037 u (ppm)	55.03	-0.0037 (ppm)	4.1756
11/1/2017 18:43:49	R1710054-001	V (292.401 nm)	0.0003 (ppm)	47.98	0.0003 (ppm)	122.4411
11/1/2017 18:43:49	R1710054-001	Y (360.074 nm)	0.97 (Ratio)	0.79	0.97 (Ratio)	905798.85
11/1/2017 18:43:49	R1710054-001	Y_R (360.074 nm)	0.97 (Ratio)	0.80	0.97 (Ratio)	906436.57
11/1/2017 18:43:49	R1710054-001	Zn (213.857 nm)	0.0040 (ppm)	4.19	0.0040 (ppm)	86.1252

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:47:09	R1710054-001S	Ag (328.068 nm)	0.0505 (ppm)	0.80	0.0505 (ppm)	3583.3260
11/1/2017 18:47:09	R1710054-001S	Al (394.401 nm)	1.9886 (ppm)	0.67	1.9886 (ppm)	26638.5078
11/1/2017 18:47:09	R1710054-001S	As (188.980 nm)	0.0429 (ppm)	10.09	0.0429 (ppm)	36.7714
11/1/2017 18:47:09	R1710054-001S	B (249.772 nm)	1.0317 (ppm)	0.48	1.0317 (ppm)	29655.2394
11/1/2017 18:47:09	R1710054-001S	Ba (230.424 nm)	2.1271 (ppm)	0.52	2.1271 (ppm)	74450.9416
11/1/2017 18:47:09	R1710054-001S	Be (313.107 nm)	0.0512 (ppm)	0.51	0.0512 (ppm)	77195.6711
11/1/2017 18:47:09	R1710054-001S	Ca (227.547 nm)	38.6646 (ppm)	0.76	38.6646 (ppm)	2276.8521
11/1/2017 18:47:09	R1710054-001S	Cd (214.439 nm)	0.0509 (ppm)	0.93	0.0509 (ppm)	1169.9476
11/1/2017 18:47:09	R1710054-001S	Co (230.786 nm)	0.5089 (ppm)	0.33	0.5089 (ppm)	5236.5511
11/1/2017 18:47:09	R1710054-001S	Cr (267.716 nm)	0.1995 (ppm)	0.49	0.1995 (ppm)	10402.9827
11/1/2017 18:47:09	R1710054-001S	Cu (327.395 nm)	0.2505 (ppm)	0.95	0.2505 (ppm)	15758.2863
11/1/2017 18:47:09	R1710054-001S	Fe (234.350 nm)	1.0414 (ppm)	0.46	1.0414 (ppm)	12170.6685
11/1/2017 18:47:09	R1710054-001S	K (766.491 nm)	24.5781 (ppm)	0.86	24.5781 (ppm)	75944.0214
11/1/2017 18:47:09	R1710054-001S	Mg (279.078 nm)	21.8876 (ppm)	0.49	21.8876 (ppm)	44157.2818
11/1/2017 18:47:09	R1710054-001S	Mn (257.610 nm)	0.4999 (ppm)	0.50	0.4999 (ppm)	161751.1140
11/1/2017 18:47:09	R1710054-001S	Mo (202.032 nm)	0.4846 (ppm)	0.15	0.4846 (ppm)	5201.5026
11/1/2017 18:47:09	R1710054-001S	Na (588.995 nm)	66.9971 o (ppm)	0.95	66.9971 (ppm)	3068304.2717
11/1/2017 18:47:09	R1710054-001S	Ni (230.299 nm)	0.5031 (ppm)	0.45	0.5031 (ppm)	3465.3115
11/1/2017 18:47:09	R1710054-001S	Pb (220.353 nm)	0.5055 (ppm)	0.53	0.5055 (ppm)	1133.9333
11/1/2017 18:47:09	R1710054-001S	Sb (217.582 nm)	0.5100 (ppm)	0.92	0.5100 (ppm)	731.7312
11/1/2017 18:47:09	R1710054-001S	Se (196.026 nm)	1.0683 (ppm)	1.28	1.0683 (ppm)	938.7228
11/1/2017 18:47:09	R1710054-001S	Sn (189.925 nm)	5.0615 (ppm)	0.46	5.0615 (ppm)	6449.3220
11/1/2017 18:47:09	R1710054-001S	Sr (216.596 nm)	2.4110 (ppm)	0.51	2.4110 (ppm)	35964.8104
11/1/2017 18:47:09	R1710054-001S	Ti (336.122 nm)	0.5006 (ppm)	0.61	0.5006 (ppm)	109355.6236
11/1/2017 18:47:09	R1710054-001S	Tl (351.923 nm)	1.9558 (ppm)	0.51	1.9558 (ppm)	5567.2202
11/1/2017 18:47:09	R1710054-001S	V (292.401 nm)	0.5088 (ppm)	0.40	0.5088 (ppm)	18425.9695
11/1/2017 18:47:09	R1710054-001S	Y (360.074 nm)	0.95 (Ratio)	0.85	0.95 (Ratio)	894014.07
11/1/2017 18:47:09	R1710054-001S	Y_R (360.074 nm)	0.96 (Ratio)	0.86	0.96 (Ratio)	894823.25
11/1/2017 18:47:09	R1710054-001S	Zn (213.857 nm)	0.5066 (ppm)	0.37	0.5066 (ppm)	14688.9556
11/1/2017 18:50:28	R1710054-001SD	Ag (328.068 nm)	0.0508 (ppm)	0.48	0.0508 (ppm)	3603.4225
11/1/2017 18:50:28	R1710054-001SD	Al (394.401 nm)	1.9925 (ppm)	0.65	1.9925 (ppm)	26690.1939
11/1/2017 18:50:28	R1710054-001SD	As (188.980 nm)	0.0407 (ppm)	8.93	0.0407 (ppm)	34.7688
11/1/2017 18:50:28	R1710054-001SD	B (249.772 nm)	1.0330 (ppm)	0.48	1.0330 (ppm)	29692.6572
11/1/2017 18:50:28	R1710054-001SD	Ba (230.424 nm)	2.1297 (ppm)	0.71	2.1297 (ppm)	74542.4182
11/1/2017 18:50:28	R1710054-001SD	Be (313.107 nm)	0.0513 (ppm)	0.53	0.0513 (ppm)	77251.6525
11/1/2017 18:50:28	R1710054-001SD	Ca (227.547 nm)	38.1327 (ppm)	0.72	38.1327 (ppm)	2245.6122
11/1/2017 18:50:28	R1710054-001SD	Cd (214.439 nm)	0.0510 (ppm)	0.30	0.0510 (ppm)	1172.0280
11/1/2017 18:50:28	R1710054-001SD	Co (230.786 nm)	0.5091 (ppm)	0.38	0.5091 (ppm)	5238.8086
11/1/2017 18:50:28	R1710054-001SD	Cr (267.716 nm)	0.1997 (ppm)	0.56	0.1997 (ppm)	10416.8218
11/1/2017 18:50:28	R1710054-001SD	Cu (327.395 nm)	0.2500 (ppm)	0.68	0.2500 (ppm)	15720.8467
11/1/2017 18:50:28	R1710054-001SD	Fe (234.350 nm)	1.0437 (ppm)	0.44	1.0437 (ppm)	12197.1746
11/1/2017 18:50:28	R1710054-001SD	K (766.491 nm)	24.6003 (ppm)	0.76	24.6003 (ppm)	76012.6334
11/1/2017 18:50:28	R1710054-001SD	Mg (279.078 nm)	21.5498 (ppm)	0.47	21.5498 (ppm)	43475.8533
11/1/2017 18:50:28	R1710054-001SD	Mn (257.610 nm)	0.5004 (ppm)	0.41	0.5004 (ppm)	161929.7862
11/1/2017 18:50:28	R1710054-001SD	Mo (202.032 nm)	0.4852 (ppm)	0.54	0.4852 (ppm)	5208.5815
11/1/2017 18:50:28	R1710054-001SD	Na (588.995 nm)	66.3859 o (ppm)	0.81	66.3859 (ppm)	3040258.7508
11/1/2017 18:50:28	R1710054-001SD	Ni (230.299 nm)	0.5034 (ppm)	0.44	0.5034 (ppm)	3467.3000
11/1/2017 18:50:28	R1710054-001SD	Pb (220.353 nm)	0.5070 (ppm)	0.21	0.5070 (ppm)	1137.3578
11/1/2017 18:50:28	R1710054-001SD	Sb (217.582 nm)	0.5124 (ppm)	0.88	0.5124 (ppm)	735.0784
11/1/2017 18:50:28	R1710054-001SD	Se (196.026 nm)	1.0644 (ppm)	0.68	1.0644 (ppm)	935.2960
11/1/2017 18:50:28	R1710054-001SD	Sn (189.925 nm)	5.0707 (ppm)	0.63	5.0707 (ppm)	6461.0904

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:50:28	R1710054-001SD	Sr (216.596 nm)	2.3996 (ppm)	0.40	2.3996 (ppm)	35794.3186
11/1/2017 18:50:28	R1710054-001SD	Ti (336.122 nm)	0.5016 (ppm)	0.59	0.5016 (ppm)	109581.3117
11/1/2017 18:50:28	R1710054-001SD	Tl (351.923 nm)	1.9602 (ppm)	0.63	1.9602 (ppm)	5579.7521
11/1/2017 18:50:28	R1710054-001SD	V (292.401 nm)	0.5093 (ppm)	0.46	0.5093 (ppm)	18445.0167
11/1/2017 18:50:28	R1710054-001SD	Y (360.074 nm)	0.95 (Ratio)	0.91	0.95 (Ratio)	891585.49
11/1/2017 18:50:28	R1710054-001SD	Y_R (360.074 nm)	0.95 (Ratio)	0.91	0.95 (Ratio)	892397.50
11/1/2017 18:50:28	R1710054-001SD	Zn (213.857 nm)	0.5064 (ppm)	0.48	0.5064 (ppm)	14682.2262
11/1/2017 18:53:47	R1710054-001A	Ag (328.068 nm)	0.0485 (ppm)	0.55	0.0485 (ppm)	3437.0203
11/1/2017 18:53:47	R1710054-001A	Al (394.401 nm)	1.9378 (ppm)	0.72	1.9378 (ppm)	25958.9849
11/1/2017 18:53:47	R1710054-001A	As (188.980 nm)	0.0397 (ppm)	12.90	0.0397 (ppm)	33.8890
11/1/2017 18:53:47	R1710054-001A	B (249.772 nm)	1.1722 (ppm)	0.53	1.1722 (ppm)	33681.6079
11/1/2017 18:53:47	R1710054-001A	Ba (230.424 nm)	2.0409 (ppm)	0.55	2.0409 (ppm)	71434.7696
11/1/2017 18:53:47	R1710054-001A	Be (313.107 nm)	0.0492 (ppm)	0.57	0.0492 (ppm)	74090.7263
11/1/2017 18:53:47	R1710054-001A	Ca (227.547 nm)	37.3768 (ppm)	0.79	37.3768 (ppm)	2201.2198
11/1/2017 18:53:47	R1710054-001A	Cd (214.439 nm)	0.0486 (ppm)	0.74	0.0486 (ppm)	1117.4901
11/1/2017 18:53:47	R1710054-001A	Co (230.786 nm)	0.4885 (ppm)	0.52	0.4885 (ppm)	5026.7703
11/1/2017 18:53:47	R1710054-001A	Cr (267.716 nm)	0.1919 (ppm)	0.42	0.1919 (ppm)	10009.4548
11/1/2017 18:53:47	R1710054-001A	Cu (327.395 nm)	0.2394 (ppm)	1.00	0.2394 (ppm)	15057.9679
11/1/2017 18:53:47	R1710054-001A	Fe (234.350 nm)	1.0015 (ppm)	0.43	1.0015 (ppm)	11707.5044
11/1/2017 18:53:47	R1710054-001A	K (766.491 nm)	23.6731 (ppm)	0.84	23.6731 (ppm)	73149.8785
11/1/2017 18:53:47	R1710054-001A	Mg (279.078 nm)	21.1368 (ppm)	0.50	21.1368 (ppm)	42642.4489
11/1/2017 18:53:47	R1710054-001A	Mn (257.610 nm)	0.4803 (ppm)	0.46	0.4803 (ppm)	155417.6966
11/1/2017 18:53:47	R1710054-001A	Mo (202.032 nm)	0.4678 (ppm)	0.43	0.4678 (ppm)	5021.9936
11/1/2017 18:53:47	R1710054-001A	Na (588.995 nm)	64.9143 o (ppm)	0.87	64.9143 (ppm)	2972730.7786
11/1/2017 18:53:47	R1710054-001A	Ni (230.299 nm)	0.4824 (ppm)	0.41	0.4824 (ppm)	3321.1151
11/1/2017 18:53:47	R1710054-001A	Pb (220.353 nm)	0.4854 (ppm)	0.08	0.4854 (ppm)	1089.1334
11/1/2017 18:53:47	R1710054-001A	Sb (217.582 nm)	0.4901 (ppm)	0.70	0.4901 (ppm)	703.2600
11/1/2017 18:53:47	R1710054-001A	Se (196.026 nm)	1.0887 (ppm)	0.50	1.0887 (ppm)	956.5102
11/1/2017 18:53:47	R1710054-001A	Sn (189.925 nm)	4.9056 (ppm)	0.75	4.9056 (ppm)	6250.7531
11/1/2017 18:53:47	R1710054-001A	Sr (216.596 nm)	2.3904 (ppm)	0.44	2.3904 (ppm)	35657.4489
11/1/2017 18:53:47	R1710054-001A	Ti (336.122 nm)	0.4830 (ppm)	0.56	0.4830 (ppm)	105492.6792
11/1/2017 18:53:47	R1710054-001A	Tl (351.923 nm)	1.8779 (ppm)	0.85	1.8779 (ppm)	5346.1371
11/1/2017 18:53:47	R1710054-001A	V (292.401 nm)	0.4883 (ppm)	0.57	0.4883 (ppm)	17686.6495
11/1/2017 18:53:47	R1710054-001A	Y (360.074 nm)	0.95 (Ratio)	0.94	0.95 (Ratio)	890690.24
11/1/2017 18:53:47	R1710054-001A	Y_R (360.074 nm)	0.95 (Ratio)	0.94	0.95 (Ratio)	891497.50
11/1/2017 18:53:47	R1710054-001A	Zn (213.857 nm)	0.4874 (ppm)	0.72	0.4874 (ppm)	14131.7951
11/1/2017 18:57:08	R1710054-001L	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-121.2546
11/1/2017 18:57:08	R1710054-001L	Al (394.401 nm)	0.0049 (ppm)	1.87	0.0049 (ppm)	149.0679
11/1/2017 18:57:08	R1710054-001L	As (188.980 nm)	0.0026 u (ppm)	> 100.00	0.0026 (ppm)	-0.5250
11/1/2017 18:57:08	R1710054-001L	B (249.772 nm)	0.0067 (ppm)	6.58	0.0067 (ppm)	283.6326
11/1/2017 18:57:08	R1710054-001L	Ba (230.424 nm)	0.0136 (ppm)	0.53	0.0136 (ppm)	482.9610
11/1/2017 18:57:08	R1710054-001L	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-514.2193
11/1/2017 18:57:08	R1710054-001L	Ca (227.547 nm)	6.3700 (ppm)	0.73	6.3700 (ppm)	380.2625
11/1/2017 18:57:08	R1710054-001L	Cd (214.439 nm)	0.0002 (ppm)	48.77	0.0002 (ppm)	16.1296
11/1/2017 18:57:08	R1710054-001L	Co (230.786 nm)	-0.0003 u (ppm)	28.22	-0.0003 (ppm)	-4.6021
11/1/2017 18:57:08	R1710054-001L	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-5.9227
11/1/2017 18:57:08	R1710054-001L	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	21.5570
11/1/2017 18:57:08	R1710054-001L	Fe (234.350 nm)	0.0093 (ppm)	2.20	0.0093 (ppm)	180.5277
11/1/2017 18:57:08	R1710054-001L	K (766.491 nm)	0.7141 (ppm)	1.21	0.7141 (ppm)	2262.4426
11/1/2017 18:57:08	R1710054-001L	Mg (279.078 nm)	3.6136 (ppm)	0.26	3.6136 (ppm)	7284.4447
11/1/2017 18:57:08	R1710054-001L	Mn (257.610 nm)	0.0005 (ppm)	5.32	0.0005 (ppm)	183.3624

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 18:57:08	R1710054-001L	Mo (202.032 nm)	0.0004 (ppm)	6.04	0.0004 (ppm)	21.4500
11/1/2017 18:57:08	R1710054-001L	Na (588.995 nm)	8.8089 (ppm)	0.60	8.8089 (ppm)	398232.7710
11/1/2017 18:57:08	R1710054-001L	Ni (230.299 nm)	0.0002 (ppm)	99.61	0.0002 (ppm)	-24.9869
11/1/2017 18:57:08	R1710054-001L	Pb (220.353 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	4.5701
11/1/2017 18:57:08	R1710054-001L	Sb (217.582 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	2.1318
11/1/2017 18:57:08	R1710054-001L	Se (196.026 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	6.6263
11/1/2017 18:57:08	R1710054-001L	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-0.8208
11/1/2017 18:57:08	R1710054-001L	Sr (216.596 nm)	0.0730 (ppm)	0.33	0.0730 (ppm)	1088.4868
11/1/2017 18:57:08	R1710054-001L	Ti (336.122 nm)	0.0001 (ppm)	9.73	0.0001 (ppm)	-390.1726
11/1/2017 18:57:08	R1710054-001L	Tl (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	15.4279
11/1/2017 18:57:08	R1710054-001L	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	107.3561
11/1/2017 18:57:08	R1710054-001L	Y (360.074 nm)	0.99 (Ratio)	0.79	0.99 (Ratio)	928248.70
11/1/2017 18:57:08	R1710054-001L	Y_R (360.074 nm)	0.99 (Ratio)	0.79	0.99 (Ratio)	928988.02
11/1/2017 18:57:08	R1710054-001L	Zn (213.857 nm)	0.0012 (ppm)	10.34	0.0012 (ppm)	2.8176
11/1/2017 19:00:27	R1710054-002	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-126.9064
11/1/2017 19:00:27	R1710054-002	Al (394.401 nm)	0.0345 (ppm)	0.47	0.0345 (ppm)	544.2172
11/1/2017 19:00:27	R1710054-002	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.7787
11/1/2017 19:00:27	R1710054-002	B (249.772 nm)	0.0624 (ppm)	0.88	0.0624 (ppm)	1880.1898
11/1/2017 19:00:27	R1710054-002	Ba (230.424 nm)	0.0362 (ppm)	1.20	0.0362 (ppm)	1274.9000
11/1/2017 19:00:27	R1710054-002	Be (313.107 nm)	0.0000 (ppm)	21.63	0.0000 (ppm)	-527.1020
11/1/2017 19:00:27	R1710054-002	Ca (227.547 nm)	256.7572 o (ppm)	0.27	256.7572 (ppm)	15084.9185
11/1/2017 19:00:27	R1710054-002	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.8630
11/1/2017 19:00:27	R1710054-002	Co (230.786 nm)	-0.0003 u (ppm)	29.20	-0.0003 (ppm)	-4.6856
11/1/2017 19:00:27	R1710054-002	Cr (267.716 nm)	-0.0003 u (ppm)	24.64	-0.0003 (ppm)	-16.9690
11/1/2017 19:00:27	R1710054-002	Cu (327.395 nm)	0.0003 (ppm)	15.08	0.0003 (ppm)	43.2700
11/1/2017 19:00:27	R1710054-002	Fe (234.350 nm)	0.0019 (ppm)	19.89	0.0019 (ppm)	95.4093
11/1/2017 19:00:27	R1710054-002	K (766.491 nm)	2.5805 (ppm)	0.41	2.5805 (ppm)	8025.1012
11/1/2017 19:00:27	R1710054-002	Mg (279.078 nm)	36.2285 (ppm)	0.40	36.2285 (ppm)	73094.1568
11/1/2017 19:00:27	R1710054-002	Mn (257.610 nm)	0.0008 (ppm)	1.57	0.0008 (ppm)	300.2241
11/1/2017 19:00:27	R1710054-002	Mo (202.032 nm)	0.0002 (ppm)	97.91	0.0002 (ppm)	19.0720
11/1/2017 19:00:27	R1710054-002	Na (588.995 nm)	62.3249 o (ppm)	0.38	62.3249 (ppm)	2853910.3607
11/1/2017 19:00:27	R1710054-002	Ni (230.299 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-30.6284
11/1/2017 19:00:27	R1710054-002	Pb (220.353 nm)	-0.0030 u (ppm)	49.10	-0.0030 (ppm)	-1.0296
11/1/2017 19:00:27	R1710054-002	Sb (217.582 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	2.1074
11/1/2017 19:00:27	R1710054-002	Se (196.026 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	4.7331
11/1/2017 19:00:27	R1710054-002	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.1669
11/1/2017 19:00:27	R1710054-002	Sr (216.596 nm)	3.2457 (ppm)	1.07	3.2457 (ppm)	48415.2310
11/1/2017 19:00:27	R1710054-002	Ti (336.122 nm)	0.0018 (ppm)	3.24	0.0018 (ppm)	-27.9136
11/1/2017 19:00:27	R1710054-002	Tl (351.923 nm)	0.0019 (ppm)	98.97	0.0019 (ppm)	19.9077
11/1/2017 19:00:27	R1710054-002	V (292.401 nm)	0.0002 (ppm)	81.19	0.0002 (ppm)	117.9231
11/1/2017 19:00:27	R1710054-002	Y (360.074 nm)	0.92 (Ratio)	0.83	0.92 (Ratio)	865439.51
11/1/2017 19:00:27	R1710054-002	Y_R (360.074 nm)	0.93 (Ratio)	0.83	0.93 (Ratio)	866426.89
11/1/2017 19:00:27	R1710054-002	Zn (213.857 nm)	0.0036 (ppm)	1.74	0.0036 (ppm)	74.8978
11/1/2017 19:03:47	R1710054-004	Ag (328.068 nm)	0.0001 (ppm)	53.10	0.0001 (ppm)	-116.3079
11/1/2017 19:03:47	R1710054-004	Al (394.401 nm)	0.1948 (ppm)	0.74	0.1948 (ppm)	2685.0993
11/1/2017 19:03:47	R1710054-004	As (188.980 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-1.8196
11/1/2017 19:03:47	R1710054-004	B (249.772 nm)	0.0508 (ppm)	0.40	0.0508 (ppm)	1546.3769
11/1/2017 19:03:47	R1710054-004	Ba (230.424 nm)	0.2040 (ppm)	0.41	0.2040 (ppm)	7146.8045
11/1/2017 19:03:47	R1710054-004	Be (313.107 nm)	0.0000 (ppm)	49.76	0.0000 (ppm)	-525.8622
11/1/2017 19:03:47	R1710054-004	Ca (227.547 nm)	177.4784 o (ppm)	0.63	177.4784 (ppm)	10429.0603
11/1/2017 19:03:47	R1710054-004	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.2994

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:03:47	R1710054-004	Co (230.786 nm)	0.0035 (ppm)	0.48	0.0035 (ppm)	34.9405
11/1/2017 19:03:47	R1710054-004	Cr (267.716 nm)	-0.0002 u (ppm)	44.31	-0.0002 (ppm)	-12.2758
11/1/2017 19:03:47	R1710054-004	Cu (327.395 nm)	0.0024 (ppm)	3.92	0.0024 (ppm)	169.3413
11/1/2017 19:03:47	R1710054-004	Fe (234.350 nm)	0.2049 (ppm)	0.31	0.2049 (ppm)	2453.6259
11/1/2017 19:03:47	R1710054-004	K (766.491 nm)	4.9871 (ppm)	0.70	4.9871 (ppm)	15455.5254
11/1/2017 19:03:47	R1710054-004	Mg (279.078 nm)	28.0849 (ppm)	0.44	28.0849 (ppm)	56662.2339
11/1/2017 19:03:47	R1710054-004	Mn (257.610 nm)	0.7549 (ppm)	0.46	0.7549 (ppm)	244259.2643
11/1/2017 19:03:47	R1710054-004	Mo (202.032 nm)	-0.0004 u (ppm)	45.45	-0.0004 (ppm)	12.0704
11/1/2017 19:03:47	R1710054-004	Na (588.995 nm)	43.4226 (ppm)	0.78	43.4226 (ppm)	1986545.2110
11/1/2017 19:03:47	R1710054-004	Ni (230.299 nm)	0.0067 (ppm)	11.31	0.0067 (ppm)	20.5500
11/1/2017 19:03:47	R1710054-004	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.2651
11/1/2017 19:03:47	R1710054-004	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	3.7439
11/1/2017 19:03:47	R1710054-004	Se (196.026 nm)	-0.0029 u (ppm)	20.95	-0.0029 (ppm)	2.9623
11/1/2017 19:03:47	R1710054-004	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.9030
11/1/2017 19:03:47	R1710054-004	Sr (216.596 nm)	9.4203 o (ppm)	0.94	9.4203 (ppm)	140524.0286
11/1/2017 19:03:47	R1710054-004	Ti (336.122 nm)	0.0053 (ppm)	4.58	0.0053 (ppm)	738.7964
11/1/2017 19:03:47	R1710054-004	Tl (351.923 nm)	-0.0028 u (ppm)	> 100.00	-0.0028 (ppm)	6.6122
11/1/2017 19:03:47	R1710054-004	V (292.401 nm)	0.0006 (ppm)	45.15	0.0006 (ppm)	132.5673
11/1/2017 19:03:47	R1710054-004	Y (360.074 nm)	0.93 (Ratio)	0.83	0.93 (Ratio)	874111.05
11/1/2017 19:03:47	R1710054-004	Y_R (360.074 nm)	0.93 (Ratio)	0.84	0.93 (Ratio)	875064.59
11/1/2017 19:03:47	R1710054-004	Zn (213.857 nm)	0.0041 (ppm)	1.02	0.0041 (ppm)	87.4131
11/1/2017 19:07:06	R1710054-006	Ag (328.068 nm)	0.0002 (ppm)	62.25	0.0002 (ppm)	-113.7685
11/1/2017 19:07:06	R1710054-006	Al (394.401 nm)	0.1645 (ppm)	0.58	0.1645 (ppm)	2279.7612
11/1/2017 19:07:06	R1710054-006	As (188.980 nm)	0.0013 u (ppm)	> 100.00	0.0013 (ppm)	-1.6968
11/1/2017 19:07:06	R1710054-006	B (249.772 nm)	0.1519 (ppm)	0.47	0.1519 (ppm)	4443.4649
11/1/2017 19:07:06	R1710054-006	Ba (230.424 nm)	0.3256 (ppm)	0.29	0.3256 (ppm)	11403.2836
11/1/2017 19:07:06	R1710054-006	Be (313.107 nm)	0.0000 (ppm)	42.67	0.0000 (ppm)	-535.9231
11/1/2017 19:07:06	R1710054-006	Ca (227.547 nm)	248.8238 o (ppm)	0.69	248.8238 (ppm)	14619.0085
11/1/2017 19:07:06	R1710054-006	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	14.2171
11/1/2017 19:07:06	R1710054-006	Co (230.786 nm)	0.0023 (ppm)	6.03	0.0023 (ppm)	22.2856
11/1/2017 19:07:06	R1710054-006	Cr (267.716 nm)	-0.0001 u (ppm)	69.80	-0.0001 (ppm)	-7.4772
11/1/2017 19:07:06	R1710054-006	Cu (327.395 nm)	0.0006 (ppm)	14.74	0.0006 (ppm)	58.4063
11/1/2017 19:07:06	R1710054-006	Fe (234.350 nm)	3.5727 (ppm)	0.45	3.5727 (ppm)	41577.6833
11/1/2017 19:07:06	R1710054-006	K (766.491 nm)	8.1805 (ppm)	0.82	8.1805 (ppm)	25315.3297
11/1/2017 19:07:06	R1710054-006	Mg (279.078 nm)	49.1257 (ppm)	0.49	49.1257 (ppm)	99117.9103
11/1/2017 19:07:06	R1710054-006	Mn (257.610 nm)	0.3046 (ppm)	0.48	0.3046 (ppm)	98574.4668
11/1/2017 19:07:06	R1710054-006	Mo (202.032 nm)	0.0011 (ppm)	25.27	0.0011 (ppm)	28.3124
11/1/2017 19:07:06	R1710054-006	Na (588.995 nm)	124.3594 o (ppm)	0.82	124.3594 (ppm)	5700476.7655
11/1/2017 19:07:06	R1710054-006	Ni (230.299 nm)	0.0121 (ppm)	15.35	0.0121 (ppm)	57.7698
11/1/2017 19:07:06	R1710054-006	Pb (220.353 nm)	-0.0022 u (ppm)	37.76	-0.0022 (ppm)	0.6306
11/1/2017 19:07:06	R1710054-006	Sb (217.582 nm)	-0.0033 u (ppm)	67.29	-0.0033 (ppm)	-0.5370
11/1/2017 19:07:06	R1710054-006	Se (196.026 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	3.6088
11/1/2017 19:07:06	R1710054-006	Sn (189.925 nm)	-0.0017 u (ppm)	67.64	-0.0017 (ppm)	-2.2884
11/1/2017 19:07:06	R1710054-006	Sr (216.596 nm)	24.4481 o (ppm)	0.71	24.4481 (ppm)	364697.6970
11/1/2017 19:07:06	R1710054-006	Ti (336.122 nm)	0.0040 (ppm)	2.95	0.0040 (ppm)	451.4384
11/1/2017 19:07:06	R1710054-006	Tl (351.923 nm)	0.0028 (ppm)	94.42	0.0028 (ppm)	22.6328
11/1/2017 19:07:06	R1710054-006	V (292.401 nm)	0.0006 (ppm)	15.65	0.0006 (ppm)	130.4254
11/1/2017 19:07:06	R1710054-006	Y (360.074 nm)	0.90 (Ratio)	0.78	0.90 (Ratio)	843402.35
11/1/2017 19:07:06	R1710054-006	Y_R (360.074 nm)	0.90 (Ratio)	0.78	0.90 (Ratio)	844440.96
11/1/2017 19:07:06	R1710054-006	Zn (213.857 nm)	0.0037 (ppm)	1.16	0.0037 (ppm)	77.4734
11/1/2017 19:10:25	R1710054-008 10X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-123.1936

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:10:25	R1710054-008 10X	Al (394.401 nm)	0.0518 (ppm)	1.12	0.0518 (ppm)	774.7233
11/1/2017 19:10:25	R1710054-008 10X	As (188.980 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.9316
11/1/2017 19:10:25	R1710054-008 10X	B (249.772 nm)	0.0114 (ppm)	0.51	0.0114 (ppm)	418.1479
11/1/2017 19:10:25	R1710054-008 10X	Ba (230.424 nm)	0.0101 (ppm)	0.61	0.0101 (ppm)	362.8586
11/1/2017 19:10:25	R1710054-008 10X	Be (313.107 nm)	0.0000 (ppm)	57.47	0.0000 (ppm)	-519.5149
11/1/2017 19:10:25	R1710054-008 10X	Ca (227.547 nm)	26.6723 (ppm)	0.67	26.6723 (ppm)	1572.5701
11/1/2017 19:10:25	R1710054-008 10X	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	14.2860
11/1/2017 19:10:25	R1710054-008 10X	Co (230.786 nm)	-0.0003 u (ppm)	20.10	-0.0003 (ppm)	-4.1776
11/1/2017 19:10:25	R1710054-008 10X	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.2734
11/1/2017 19:10:25	R1710054-008 10X	Cu (327.395 nm)	0.0003 (ppm)	22.26	0.0003 (ppm)	38.8517
11/1/2017 19:10:25	R1710054-008 10X	Fe (234.350 nm)	0.0347 (ppm)	1.05	0.0347 (ppm)	476.1532
11/1/2017 19:10:25	R1710054-008 10X	K (766.491 nm)	1.8715 (ppm)	0.83	1.8715 (ppm)	5835.9239
11/1/2017 19:10:25	R1710054-008 10X	Mg (279.078 nm)	7.8323 (ppm)	0.41	7.8323 (ppm)	15796.8964
11/1/2017 19:10:25	R1710054-008 10X	Mn (257.610 nm)	0.0051 (ppm)	0.23	0.0051 (ppm)	1666.9181
11/1/2017 19:10:25	R1710054-008 10X	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	13.8931
11/1/2017 19:10:25	R1710054-008 10X	Na (588.995 nm)	8.4244 (ppm)	0.71	8.4244 (ppm)	380591.0576
11/1/2017 19:10:25	R1710054-008 10X	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-25.4571
11/1/2017 19:10:25	R1710054-008 10X	Pb (220.353 nm)	-0.0021 u (ppm)	44.35	-0.0021 (ppm)	0.8874
11/1/2017 19:10:25	R1710054-008 10X	Sb (217.582 nm)	-0.0040 u (ppm)	52.00	-0.0040 (ppm)	-1.5712
11/1/2017 19:10:25	R1710054-008 10X	Se (196.026 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	5.2216
11/1/2017 19:10:25	R1710054-008 10X	Sn (189.925 nm)	-0.0018 u (ppm)	77.64	-0.0018 (ppm)	-2.4575
11/1/2017 19:10:25	R1710054-008 10X	Sr (216.596 nm)	2.8502 (ppm)	0.28	2.8502 (ppm)	42515.7651
11/1/2017 19:10:25	R1710054-008 10X	Ti (336.122 nm)	0.0013 (ppm)	5.13	0.0013 (ppm)	-128.4066
11/1/2017 19:10:25	R1710054-008 10X	Tl (351.923 nm)	-0.0027 u (ppm)	85.58	-0.0027 (ppm)	7.0109
11/1/2017 19:10:25	R1710054-008 10X	V (292.401 nm)	0.0001 (ppm)	55.48	0.0001 (ppm)	114.6914
11/1/2017 19:10:25	R1710054-008 10X	Y (360.074 nm)	0.98 (Ratio)	0.93	0.98 (Ratio)	917261.49
11/1/2017 19:10:25	R1710054-008 10X	Y_R (360.074 nm)	0.98 (Ratio)	0.93	0.98 (Ratio)	918195.72
11/1/2017 19:10:25	R1710054-008 10X	Zn (213.857 nm)	0.0034 (ppm)	1.58	0.0034 (ppm)	66.8399
11/1/2017 19:13:44	R1710054-008	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-121.8487
11/1/2017 19:13:44	R1710054-008	Al (394.401 nm)	0.4839 (ppm)	1.42	0.4839 (ppm)	6544.7037
11/1/2017 19:13:44	R1710054-008	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-3.1840
11/1/2017 19:13:44	R1710054-008	B (249.772 nm)	0.1355 (ppm)	0.71	0.1355 (ppm)	3974.0304
11/1/2017 19:13:44	R1710054-008	Ba (230.424 nm)	0.0994 (ppm)	0.96	0.0994 (ppm)	3487.2169
11/1/2017 19:13:44	R1710054-008	Be (313.107 nm)	0.0000 (ppm)	69.37	0.0000 (ppm)	-521.2918
11/1/2017 19:13:44	R1710054-008	Ca (227.547 nm)	295.1784 o (ppm)	0.69	295.1784 (ppm)	17341.3018
11/1/2017 19:13:44	R1710054-008	Cd (214.439 nm)	-0.0001 u (ppm)	81.64	-0.0001 (ppm)	10.4044
11/1/2017 19:13:44	R1710054-008	Co (230.786 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	4.3328
11/1/2017 19:13:44	R1710054-008	Cr (267.716 nm)	0.0004 (ppm)	10.21	0.0004 (ppm)	21.5463
11/1/2017 19:13:44	R1710054-008	Cu (327.395 nm)	0.0022 (ppm)	9.80	0.0022 (ppm)	161.1483
11/1/2017 19:13:44	R1710054-008	Fe (234.350 nm)	0.3591 (ppm)	1.23	0.3591 (ppm)	4244.9191
11/1/2017 19:13:44	R1710054-008	K (766.491 nm)	21.7555 (ppm)	0.59	21.7555 (ppm)	67228.9811
11/1/2017 19:13:44	R1710054-008	Mg (279.078 nm)	81.3221 o (ppm)	0.84	81.3221 (ppm)	164083.3178
11/1/2017 19:13:44	R1710054-008	Mn (257.610 nm)	0.0487 (ppm)	0.85	0.0487 (ppm)	15781.2830
11/1/2017 19:13:44	R1710054-008	Mo (202.032 nm)	0.0020 (ppm)	6.60	0.0020 (ppm)	38.0570
11/1/2017 19:13:44	R1710054-008	Na (588.995 nm)	87.9348 o (ppm)	0.79	87.9348 (ppm)	4029066.2280
11/1/2017 19:13:44	R1710054-008	Ni (230.299 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-30.9087
11/1/2017 19:13:44	R1710054-008	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.1472
11/1/2017 19:13:44	R1710054-008	Sb (217.582 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	2.6378
11/1/2017 19:13:44	R1710054-008	Se (196.026 nm)	-0.0067 u (ppm)	64.44	-0.0067 (ppm)	-0.3100
11/1/2017 19:13:44	R1710054-008	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.1724
11/1/2017 19:13:44	R1710054-008	Sr (216.596 nm)	26.8605 o (ppm)	1.10	26.8605 (ppm)	400685.1002

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:13:44	R1710054-008	Ti (336.122 nm)	0.0130 (ppm)	2.79	0.0130 (ppm)	2426.1267
11/1/2017 19:13:44	R1710054-008	Tl (351.923 nm)	0.0078 (ppm)	39.33	0.0078 (ppm)	36.8100
11/1/2017 19:13:44	R1710054-008	V (292.401 nm)	0.0009 (ppm)	13.78	0.0009 (ppm)	144.0251
11/1/2017 19:13:44	R1710054-008	Y (360.074 nm)	0.90 (Ratio)	1.21	0.90 (Ratio)	842519.48
11/1/2017 19:13:44	R1710054-008	Y_R (360.074 nm)	0.90 (Ratio)	1.22	0.90 (Ratio)	843559.00
11/1/2017 19:13:44	R1710054-008	Zn (213.857 nm)	0.0038 (ppm)	3.37	0.0038 (ppm)	80.2736
11/1/2017 19:17:03	Continuing Calibration Verification	Ag (328.068 nm)	0.4935 (ppm)	0.53	0.4935 (ppm)	36130.6419
11/1/2017 19:17:03	Continuing Calibration Verification	Al (394.401 nm)	9.5972 (ppm)	0.63	9.5972 (ppm)	128239.1668
11/1/2017 19:17:03	Continuing Calibration Verification	As (188.980 nm)	0.9657 (ppm)	0.99	0.9657 (ppm)	890.8885
11/1/2017 19:17:03	Continuing Calibration Verification	B (249.772 nm)	2.4294 (ppm)	0.52	2.4294 (ppm)	69709.7450
11/1/2017 19:17:03	Continuing Calibration Verification	Ba (230.424 nm)	10.3812 (ppm)	0.47	10.3812 (ppm)	363323.5601
11/1/2017 19:17:03	Continuing Calibration Verification	Be (313.107 nm)	0.2554 (ppm)	0.39	0.2554 (ppm)	386840.8158
11/1/2017 19:17:03	Continuing Calibration Verification	Ca (227.547 nm)	24.3830 (ppm)	0.68	24.3830 (ppm)	1438.1255
11/1/2017 19:17:03	Continuing Calibration Verification	Cd (214.439 nm)	0.5014 (ppm)	0.30	0.5014 (ppm)	11415.5100
11/1/2017 19:17:03	Continuing Calibration Verification	Co (230.786 nm)	2.6106 (ppm)	0.41	2.6106 (ppm)	26867.3715
11/1/2017 19:17:03	Continuing Calibration Verification	Cr (267.716 nm)	0.5093 (ppm)	0.39	0.5093 (ppm)	26563.1211
11/1/2017 19:17:03	Continuing Calibration Verification	Cu (327.395 nm)	1.2140 (ppm)	0.17	1.2140 (ppm)	76272.6517
11/1/2017 19:17:03	Continuing Calibration Verification	Fe (234.350 nm)	4.8913 (ppm)	0.40	4.8913 (ppm)	56895.0665
11/1/2017 19:17:03	Continuing Calibration Verification	K (766.491 nm)	24.8987 (ppm)	0.74	24.8987 (ppm)	76933.7694
11/1/2017 19:17:03	Continuing Calibration Verification	Mg (279.078 nm)	25.1841 (ppm)	0.39	25.1841 (ppm)	50808.9701
11/1/2017 19:17:03	Continuing Calibration Verification	Mn (257.610 nm)	0.7596 (ppm)	0.40	0.7596 (ppm)	245784.9829
11/1/2017 19:17:03	Continuing Calibration Verification	Mo (202.032 nm)	2.4140 (ppm)	0.35	2.4140 (ppm)	25846.2311
11/1/2017 19:17:03	Continuing Calibration Verification	Na (588.995 nm)	24.9793 (ppm)	1.04	24.9793 (ppm)	1140242.4943
11/1/2017 19:17:03	Continuing Calibration Verification	Ni (230.299 nm)	2.0500 (ppm)	0.47	2.0500 (ppm)	14199.0539
11/1/2017 19:17:03	Continuing Calibration Verification	Pb (220.353 nm)	0.5026 (ppm)	0.38	0.5026 (ppm)	1127.4726
11/1/2017 19:17:03	Continuing Calibration Verification	Sb (217.582 nm)	4.9330 (ppm)	0.69	4.9330 (ppm)	7041.4991
11/1/2017 19:17:03	Continuing Calibration Verification	Se (196.026 nm)	0.4847 (ppm)	1.42	0.4847 (ppm)	428.9380
11/1/2017 19:17:03	Continuing Calibration Verification	Sn (189.925 nm)	5.0925 (ppm)	0.53	5.0925 (ppm)	6488.9245
11/1/2017 19:17:03	Continuing Calibration Verification	Sr (216.596 nm)	2.5387 (ppm)	0.31	2.5387 (ppm)	37869.3022
11/1/2017 19:17:03	Continuing Calibration Verification	Ti (336.122 nm)	2.5162 (ppm)	0.65	2.5162 (ppm)	551394.6722
11/1/2017 19:17:03	Continuing Calibration Verification	Tl (351.923 nm)	0.9961 (ppm)	0.27	0.9961 (ppm)	2842.7416
11/1/2017 19:17:03	Continuing Calibration Verification	V (292.401 nm)	2.5464 (ppm)	0.38	2.5464 (ppm)	91773.4378
11/1/2017 19:17:03	Continuing Calibration Verification	Y (360.074 nm)	0.95 (Ratio)	1.00	0.95 (Ratio)	885376.22
11/1/2017 19:17:03	Continuing Calibration Verification	Y_R (360.074 nm)	0.95 (Ratio)	1.00	0.95 (Ratio)	886294.53
11/1/2017 19:17:03	Continuing Calibration Verification	Zn (213.857 nm)	1.0085 (ppm)	0.45	1.0085 (ppm)	29271.4450
11/1/2017 19:20:22	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-126.0967
11/1/2017 19:20:22	Continuing Calibration Blank	Al (394.401 nm)	-0.0005 u (ppm)	60.69	-0.0005 (ppm)	76.6720
11/1/2017 19:20:22	Continuing Calibration Blank	As (188.980 nm)	0.0044 (ppm)	36.21	0.0044 (ppm)	1.1307
11/1/2017 19:20:22	Continuing Calibration Blank	B (249.772 nm)	0.0009 (ppm)	84.48	0.0009 (ppm)	115.5704
11/1/2017 19:20:22	Continuing Calibration Blank	Ba (230.424 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	10.3546
11/1/2017 19:20:22	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	28.66	0.0000 (ppm)	-495.0360
11/1/2017 19:20:22	Continuing Calibration Blank	Ca (227.547 nm)	0.0031 u (ppm)	> 100.00	0.0031 (ppm)	6.3533
11/1/2017 19:20:22	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	48.53	0.0001 (ppm)	15.6339
11/1/2017 19:20:22	Continuing Calibration Blank	Co (230.786 nm)	-0.0003 u (ppm)	73.33	-0.0003 (ppm)	-4.0314
11/1/2017 19:20:22	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	0.6248
11/1/2017 19:20:22	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	20.3280
11/1/2017 19:20:22	Continuing Calibration Blank	Fe (234.350 nm)	0.0042 (ppm)	10.47	0.0042 (ppm)	121.0340
11/1/2017 19:20:22	Continuing Calibration Blank	K (766.491 nm)	0.0135 (ppm)	> 100.00	0.0135 (ppm)	99.1416
11/1/2017 19:20:22	Continuing Calibration Blank	Mg (279.078 nm)	0.0033 (ppm)	60.51	0.0033 (ppm)	-0.4690
11/1/2017 19:20:22	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 u (ppm)	57.83	0.0000 (ppm)	22.2731
11/1/2017 19:20:22	Continuing Calibration Blank	Mo (202.032 nm)	0.0017 (ppm)	6.30	0.0017 (ppm)	34.7525

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:20:22	Continuing Calibration Blank	Na (588.995 nm)	0.0013 (ppm)	20.50	0.0013 (ppm)	-5917.2568
11/1/2017 19:20:22	Continuing Calibration Blank	Ni (230.299 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-23.7976
11/1/2017 19:20:22	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	6.1154
11/1/2017 19:20:22	Continuing Calibration Blank	Sb (217.582 nm)	-0.0019 u (ppm)	76.82	-0.0019 (ppm)	1.3942
11/1/2017 19:20:22	Continuing Calibration Blank	Se (196.026 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	6.3545
11/1/2017 19:20:22	Continuing Calibration Blank	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.0817
11/1/2017 19:20:22	Continuing Calibration Blank	Sr (216.596 nm)	-0.0001 u (ppm)	42.67	-0.0001 (ppm)	-2.5673
11/1/2017 19:20:22	Continuing Calibration Blank	Ti (336.122 nm)	0.0006 (ppm)	6.87	0.0006 (ppm)	-292.9302
11/1/2017 19:20:22	Continuing Calibration Blank	Tl (351.923 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	7.7251
11/1/2017 19:20:22	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	107.8417
11/1/2017 19:20:22	Continuing Calibration Blank	Y (360.074 nm)	0.99 (Ratio)	0.91	0.99 (Ratio)	927214.75
11/1/2017 19:20:22	Continuing Calibration Blank	Y_R (360.074 nm)	0.99 (Ratio)	0.91	0.99 (Ratio)	928015.63
11/1/2017 19:20:22	Continuing Calibration Blank	Zn (213.857 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-32.7588
11/1/2017 19:23:41	R1710054-010	Ag (328.068 nm)	0.0002 (ppm)	56.15	0.0002 (ppm)	-113.7160
11/1/2017 19:23:41	R1710054-010	Al (394.401 nm)	0.1868 (ppm)	0.95	0.1868 (ppm)	2577.3200
11/1/2017 19:23:41	R1710054-010	As (188.980 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-3.1440
11/1/2017 19:23:41	R1710054-010	B (249.772 nm)	0.0844 (ppm)	0.35	0.0844 (ppm)	2510.7376
11/1/2017 19:23:41	R1710054-010	Ba (230.424 nm)	0.2961 (ppm)	1.31	0.2961 (ppm)	10369.4710
11/1/2017 19:23:41	R1710054-010	Be (313.107 nm)	0.0000 (ppm)	86.99	0.0000 (ppm)	-520.0105
11/1/2017 19:23:41	R1710054-010	Ca (227.547 nm)	176.4004 o (ppm)	0.62	176.4004 (ppm)	10365.7530
11/1/2017 19:23:41	R1710054-010	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.9046
11/1/2017 19:23:41	R1710054-010	Co (230.786 nm)	0.0028 (ppm)	18.80	0.0028 (ppm)	27.4874
11/1/2017 19:23:41	R1710054-010	Cr (267.716 nm)	0.0004 (ppm)	21.91	0.0004 (ppm)	18.3009
11/1/2017 19:23:41	R1710054-010	Cu (327.395 nm)	0.0058 (ppm)	2.38	0.0058 (ppm)	383.1275
11/1/2017 19:23:41	R1710054-010	Fe (234.350 nm)	0.2924 (ppm)	0.55	0.2924 (ppm)	3469.9657
11/1/2017 19:23:41	R1710054-010	K (766.491 nm)	6.7586 (ppm)	0.71	6.7586 (ppm)	20925.1018
11/1/2017 19:23:41	R1710054-010	Mg (279.078 nm)	31.4619 (ppm)	0.68	31.4619 (ppm)	63476.2368
11/1/2017 19:23:41	R1710054-010	Mn (257.610 nm)	0.1024 (ppm)	0.56	0.1024 (ppm)	33172.2244
11/1/2017 19:23:41	R1710054-010	Mo (202.032 nm)	0.0008 (ppm)	38.31	0.0008 (ppm)	24.9618
11/1/2017 19:23:41	R1710054-010	Na (588.995 nm)	69.8042 o (ppm)	0.72	69.8042 (ppm)	3197114.4131
11/1/2017 19:23:41	R1710054-010	Ni (230.299 nm)	0.0074 (ppm)	8.26	0.0074 (ppm)	25.5663
11/1/2017 19:23:41	R1710054-010	Pb (220.353 nm)	-0.0017 u (ppm)	25.52	-0.0017 (ppm)	1.7687
11/1/2017 19:23:41	R1710054-010	Sb (217.582 nm)	-0.0025 u (ppm)	42.47	-0.0025 (ppm)	0.4962
11/1/2017 19:23:41	R1710054-010	Se (196.026 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	3.9701
11/1/2017 19:23:41	R1710054-010	Sn (189.925 nm)	-0.0024 u (ppm)	62.24	-0.0024 (ppm)	-3.2043
11/1/2017 19:23:41	R1710054-010	Sr (216.596 nm)	18.6308 o (ppm)	0.90	18.6308 (ppm)	277920.2863
11/1/2017 19:23:41	R1710054-010	Ti (336.122 nm)	0.0044 (ppm)	3.12	0.0044 (ppm)	542.3185
11/1/2017 19:23:41	R1710054-010	Tl (351.923 nm)	0.0021 u (ppm)	> 100.00	0.0021 (ppm)	20.5018
11/1/2017 19:23:41	R1710054-010	V (292.401 nm)	0.0006 (ppm)	21.68	0.0006 (ppm)	131.1301
11/1/2017 19:23:41	R1710054-010	Y (360.074 nm)	0.92 (Ratio)	1.05	0.92 (Ratio)	865728.93
11/1/2017 19:23:41	R1710054-010	Y_R (360.074 nm)	0.93 (Ratio)	1.04	0.93 (Ratio)	866719.65
11/1/2017 19:23:41	R1710054-010	Zn (213.857 nm)	0.0059 (ppm)	1.46	0.0059 (ppm)	139.9173
11/1/2017 19:27:00	R1710054-012 10X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-124.9818
11/1/2017 19:27:00	R1710054-012 10X	Al (394.401 nm)	0.2920 (ppm)	0.78	0.2920 (ppm)	3982.8701
11/1/2017 19:27:00	R1710054-012 10X	As (188.980 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	-1.3943
11/1/2017 19:27:00	R1710054-012 10X	B (249.772 nm)	0.0117 (ppm)	0.54	0.0117 (ppm)	427.2442
11/1/2017 19:27:00	R1710054-012 10X	Ba (230.424 nm)	0.0083 (ppm)	2.13	0.0083 (ppm)	296.8085
11/1/2017 19:27:00	R1710054-012 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-502.2346
11/1/2017 19:27:00	R1710054-012 10X	Ca (227.547 nm)	35.7473 (ppm)	0.93	35.7473 (ppm)	2105.5267
11/1/2017 19:27:00	R1710054-012 10X	Cd (214.439 nm)	0.0001 (ppm)	46.52	0.0001 (ppm)	15.3740
11/1/2017 19:27:00	R1710054-012 10X	Co (230.786 nm)	-0.0003 u (ppm)	32.01	-0.0003 (ppm)	-4.8005

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:27:00	R1710054-012 10X	Cr (267.716 nm)	0.0004 (ppm)	9.35	0.0004 (ppm)	22.7970
11/1/2017 19:27:00	R1710054-012 10X	Cu (327.395 nm)	0.0013 (ppm)	12.45	0.0013 (ppm)	103.9410
11/1/2017 19:27:00	R1710054-012 10X	Fe (234.350 nm)	0.1888 (ppm)	0.26	0.1888 (ppm)	2265.7133
11/1/2017 19:27:00	R1710054-012 10X	K (766.491 nm)	4.7119 (ppm)	0.65	4.7119 (ppm)	14605.8443
11/1/2017 19:27:00	R1710054-012 10X	Mg (279.078 nm)	8.3483 (ppm)	0.45	8.3483 (ppm)	16837.9301
11/1/2017 19:27:00	R1710054-012 10X	Mn (257.610 nm)	0.0040 (ppm)	0.73	0.0040 (ppm)	1336.5394
11/1/2017 19:27:00	R1710054-012 10X	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	17.5499
11/1/2017 19:27:00	R1710054-012 10X	Na (588.995 nm)	2.3284 (ppm)	0.92	2.3284 (ppm)	100862.0672
11/1/2017 19:27:00	R1710054-012 10X	Ni (230.299 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-29.2113
11/1/2017 19:27:00	R1710054-012 10X	Pb (220.353 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	3.5103
11/1/2017 19:27:00	R1710054-012 10X	Sb (217.582 nm)	-0.0023 u (ppm)	15.18	-0.0023 (ppm)	0.8785
11/1/2017 19:27:00	R1710054-012 10X	Se (196.026 nm)	0.0017 u (ppm)	> 100.00	0.0017 (ppm)	7.0426
11/1/2017 19:27:00	R1710054-012 10X	Sn (189.925 nm)	-0.0016 u (ppm)	62.36	-0.0016 (ppm)	-2.1858
11/1/2017 19:27:00	R1710054-012 10X	Sr (216.596 nm)	1.9071 (ppm)	0.84	1.9071 (ppm)	28447.3871
11/1/2017 19:27:00	R1710054-012 10X	Ti (336.122 nm)	0.0109 (ppm)	4.05	0.0109 (ppm)	1962.7858
11/1/2017 19:27:00	R1710054-012 10X	Tl (351.923 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	14.2930
11/1/2017 19:27:00	R1710054-012 10X	V (292.401 nm)	0.0007 (ppm)	32.27	0.0007 (ppm)	136.1082
11/1/2017 19:27:00	R1710054-012 10X	Y (360.074 nm)	0.97 (Ratio)	0.81	0.97 (Ratio)	906214.89
11/1/2017 19:27:00	R1710054-012 10X	Y_R (360.074 nm)	0.97 (Ratio)	0.80	0.97 (Ratio)	906969.62
11/1/2017 19:27:00	R1710054-012 10X	Zn (213.857 nm)	0.0040 (ppm)	1.40	0.0040 (ppm)	84.7623
11/1/2017 19:30:19	R1710054-012	Ag (328.068 nm)	0.0002 (ppm)	39.13	0.0002 (ppm)	-109.7804
11/1/2017 19:30:19	R1710054-012	Al (394.401 nm)	3.0138 (ppm)	0.88	3.0138 (ppm)	40327.7086
11/1/2017 19:30:19	R1710054-012	As (188.980 nm)	0.0043 (ppm)	> 100.00	0.0043 (ppm)	1.0629
11/1/2017 19:30:19	R1710054-012	B (249.772 nm)	0.1351 (ppm)	0.58	0.1351 (ppm)	3962.9646
11/1/2017 19:30:19	R1710054-012	Ba (230.424 nm)	0.0792 (ppm)	1.41	0.0792 (ppm)	2780.1388
11/1/2017 19:30:19	R1710054-012	Be (313.107 nm)	0.0001 (ppm)	9.91	0.0001 (ppm)	-378.5748
11/1/2017 19:30:19	R1710054-012	Ca (227.547 nm)	397.1499 o (ppm)	0.33	397.1499 (ppm)	23329.8519
11/1/2017 19:30:19	R1710054-012	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	11.9833
11/1/2017 19:30:19	R1710054-012	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	1.9819
11/1/2017 19:30:19	R1710054-012	Cr (267.716 nm)	0.0055 (ppm)	4.62	0.0055 (ppm)	288.4111
11/1/2017 19:30:19	R1710054-012	Cu (327.395 nm)	0.0143 (ppm)	1.70	0.0143 (ppm)	921.3504
11/1/2017 19:30:19	R1710054-012	Fe (234.350 nm)	1.8037 (ppm)	1.01	1.8037 (ppm)	21026.5907
11/1/2017 19:30:19	R1710054-012	K (766.491 nm)	53.8311 (ppm)	0.17	53.8311 (ppm)	166264.4307
11/1/2017 19:30:19	R1710054-012	Mg (279.078 nm)	86.0928 o (ppm)	0.90	86.0928 (ppm)	173709.4024
11/1/2017 19:30:19	R1710054-012	Mn (257.610 nm)	0.0386 (ppm)	0.76	0.0386 (ppm)	12508.5796
11/1/2017 19:30:19	R1710054-012	Mo (202.032 nm)	0.0032 (ppm)	13.21	0.0032 (ppm)	51.1081
11/1/2017 19:30:19	R1710054-012	Na (588.995 nm)	25.3317 (ppm)	0.14	25.3317 (ppm)	1156410.2645
11/1/2017 19:30:19	R1710054-012	Ni (230.299 nm)	-0.0099 u (ppm)	11.32	-0.0099 (ppm)	-94.4684
11/1/2017 19:30:19	R1710054-012	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.2687
11/1/2017 19:30:19	R1710054-012	Sb (217.582 nm)	-0.0032 u (ppm)	90.79	-0.0032 (ppm)	-0.3938
11/1/2017 19:30:19	R1710054-012	Se (196.026 nm)	-0.0042 u (ppm)	69.60	-0.0042 (ppm)	1.8158
11/1/2017 19:30:19	R1710054-012	Sn (189.925 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	-2.9176
11/1/2017 19:30:19	R1710054-012	Sr (216.596 nm)	17.9982 o (ppm)	0.34	17.9982 (ppm)	268482.9420
11/1/2017 19:30:19	R1710054-012	Ti (336.122 nm)	0.0749 (ppm)	3.97	0.0749 (ppm)	16008.5043
11/1/2017 19:30:19	R1710054-012	Tl (351.923 nm)	0.0059 (ppm)	34.64	0.0059 (ppm)	31.2381
11/1/2017 19:30:19	R1710054-012	V (292.401 nm)	0.0051 (ppm)	6.24	0.0051 (ppm)	294.4473
11/1/2017 19:30:19	R1710054-012	Y (360.074 nm)	0.90 (Ratio)	1.14	0.90 (Ratio)	846158.80
11/1/2017 19:30:19	R1710054-012	Y_R (360.074 nm)	0.90 (Ratio)	1.13	0.90 (Ratio)	847061.63
11/1/2017 19:30:19	R1710054-012	Zn (213.857 nm)	0.0093 (ppm)	1.65	0.0093 (ppm)	240.2370
11/1/2017 19:33:38	R1710113-001 10X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-123.9262
11/1/2017 19:33:38	R1710113-001 10X	Al (394.401 nm)	0.1103 (ppm)	0.56	0.1103 (ppm)	1556.2150

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:33:38	R1710113-001 10X	As (188.980 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-3.6650
11/1/2017 19:33:38	R1710113-001 10X	B (249.772 nm)	0.0262 (ppm)	0.55	0.0262 (ppm)	840.5456
11/1/2017 19:33:38	R1710113-001 10X	Ba (230.424 nm)	0.0023 (ppm)	3.38	0.0023 (ppm)	88.4494
11/1/2017 19:33:38	R1710113-001 10X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-507.1928
11/1/2017 19:33:38	R1710113-001 10X	Ca (227.547 nm)	39.1896 (ppm)	0.63	39.1896 (ppm)	2307.6825
11/1/2017 19:33:38	R1710113-001 10X	Cd (214.439 nm)	0.0001 (ppm)	41.07	0.0001 (ppm)	15.1158
11/1/2017 19:33:38	R1710113-001 10X	Co (230.786 nm)	0.0004 (ppm)	68.93	0.0004 (ppm)	2.9293
11/1/2017 19:33:38	R1710113-001 10X	Cr (267.716 nm)	-0.0001 u (ppm)	61.13	-0.0001 (ppm)	-7.5432
11/1/2017 19:33:38	R1710113-001 10X	Cu (327.395 nm)	0.0007 (ppm)	18.80	0.0007 (ppm)	63.2390
11/1/2017 19:33:38	R1710113-001 10X	Fe (234.350 nm)	0.4071 (ppm)	0.40	0.4071 (ppm)	4801.7953
11/1/2017 19:33:38	R1710113-001 10X	K (766.491 nm)	1.6554 (ppm)	1.14	1.6554 (ppm)	5168.6928
11/1/2017 19:33:38	R1710113-001 10X	Mg (279.078 nm)	7.2256 (ppm)	0.47	7.2256 (ppm)	14572.5657
11/1/2017 19:33:38	R1710113-001 10X	Mn (257.610 nm)	0.2945 (ppm)	0.37	0.2945 (ppm)	95309.6258
11/1/2017 19:33:38	R1710113-001 10X	Mo (202.032 nm)	-0.0003 u (ppm)	19.34	-0.0003 (ppm)	13.4374
11/1/2017 19:33:38	R1710113-001 10X	Na (588.995 nm)	3.3311 (ppm)	0.56	3.3311 (ppm)	146873.4049
11/1/2017 19:33:38	R1710113-001 10X	Ni (230.299 nm)	-0.0005 u (ppm)	23.47	-0.0005 (ppm)	-29.2532
11/1/2017 19:33:38	R1710113-001 10X	Pb (220.353 nm)	-0.0002 u (ppm)	51.84	-0.0002 (ppm)	5.1061
11/1/2017 19:33:38	R1710113-001 10X	Sb (217.582 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	2.8385
11/1/2017 19:33:38	R1710113-001 10X	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	4.3271
11/1/2017 19:33:38	R1710113-001 10X	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.5612
11/1/2017 19:33:38	R1710113-001 10X	Sr (216.596 nm)	0.1017 (ppm)	0.31	0.1017 (ppm)	1515.9523
11/1/2017 19:33:38	R1710113-001 10X	Tl (336.122 nm)	0.0029 (ppm)	1.58	0.0029 (ppm)	219.3852
11/1/2017 19:33:38	R1710113-001 10X	Tl (351.923 nm)	-0.0021 u (ppm)	9.92	-0.0021 (ppm)	8.5265
11/1/2017 19:33:38	R1710113-001 10X	V (292.401 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	116.0746
11/1/2017 19:33:38	R1710113-001 10X	Y (360.074 nm)	0.98 (Ratio)	0.58	0.98 (Ratio)	914679.16
11/1/2017 19:33:38	R1710113-001 10X	Y_R (360.074 nm)	0.98 (Ratio)	0.57	0.98 (Ratio)	915392.51
11/1/2017 19:33:38	R1710113-001 10X	Zn (213.857 nm)	0.0023 (ppm)	3.36	0.0023 (ppm)	35.6331
11/1/2017 19:36:57	R1710113-001	Ag (328.068 nm)	0.0001 (ppm)	21.96	0.0001 (ppm)	-118.2412
11/1/2017 19:36:57	R1710113-001	Al (394.401 nm)	1.1106 (ppm)	0.95	1.1106 (ppm)	14913.7870
11/1/2017 19:36:57	R1710113-001	As (188.980 nm)	0.0040 (ppm)	54.58	0.0040 (ppm)	0.7930
11/1/2017 19:36:57	R1710113-001	B (249.772 nm)	0.2935 (ppm)	0.66	0.2935 (ppm)	8500.8039
11/1/2017 19:36:57	R1710113-001	Ba (230.424 nm)	0.0220 (ppm)	0.62	0.0220 (ppm)	777.7920
11/1/2017 19:36:57	R1710113-001	Be (313.107 nm)	0.0000 (ppm)	59.24	0.0000 (ppm)	-477.5983
11/1/2017 19:36:57	R1710113-001	Ca (227.547 nm)	430.3212 o (ppm)	0.69	430.3212 (ppm)	25277.9244
11/1/2017 19:36:57	R1710113-001	Cd (214.439 nm)	0.0002 (ppm)	63.41	0.0002 (ppm)	16.2903
11/1/2017 19:36:57	R1710113-001	Co (230.786 nm)	0.0071 (ppm)	4.22	0.0071 (ppm)	71.8293
11/1/2017 19:36:57	R1710113-001	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.7844
11/1/2017 19:36:57	R1710113-001	Cu (327.395 nm)	0.0070 (ppm)	0.55	0.0070 (ppm)	459.3683
11/1/2017 19:36:57	R1710113-001	Fe (234.350 nm)	3.9167 (ppm)	0.94	3.9167 (ppm)	45572.8862
11/1/2017 19:36:57	R1710113-001	K (766.491 nm)	18.9878 (ppm)	0.67	18.9878 (ppm)	58683.5836
11/1/2017 19:36:57	R1710113-001	Mg (279.078 nm)	73.8497 o (ppm)	0.97	73.8497 (ppm)	149005.6319
11/1/2017 19:36:57	R1710113-001	Mn (257.610 nm)	2.7925 o (ppm)	0.86	2.7925 (ppm)	903477.2140
11/1/2017 19:36:57	R1710113-001	Mo (202.032 nm)	0.0016 (ppm)	10.69	0.0016 (ppm)	34.2537
11/1/2017 19:36:57	R1710113-001	Na (588.995 nm)	35.6235 (ppm)	0.61	35.6235 (ppm)	1628668.0863
11/1/2017 19:36:57	R1710113-001	Ni (230.299 nm)	-0.0106 u (ppm)	4.11	-0.0106 (ppm)	-99.6292
11/1/2017 19:36:57	R1710113-001	Pb (220.353 nm)	-0.0012 u (ppm)	82.36	-0.0012 (ppm)	2.8589
11/1/2017 19:36:57	R1710113-001	Sb (217.582 nm)	-0.0023 u (ppm)	81.43	-0.0023 (ppm)	0.8620
11/1/2017 19:36:57	R1710113-001	Se (196.026 nm)	0.0025 u (ppm)	> 100.00	0.0025 (ppm)	7.7231
11/1/2017 19:36:57	R1710113-001	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.8749
11/1/2017 19:36:57	R1710113-001	Sr (216.596 nm)	0.9463 (ppm)	1.73	0.9463 (ppm)	14114.6826
11/1/2017 19:36:57	R1710113-001	Ti (336.122 nm)	0.0303 (ppm)	3.12	0.0303 (ppm)	6223.5741

2nd analysis Report DX

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:36:57	R1710113-001	Tl (351.923 nm)	0.0112 (ppm) ?	37.32	0.0112 (ppm)	46.3552
11/1/2017 19:36:57	R1710113-001	V (292.401 nm)	0.0025 (ppm)	5.23	0.0025 (ppm)	201.3333
11/1/2017 19:36:57	R1710113-001	Y (360.074 nm)	0.91 (Ratio)	1.08	0.91 (Ratio)	852475.78
11/1/2017 19:36:57	R1710113-001	Y_R (360.074 nm)	0.91 (Ratio)	1.08	0.91 (Ratio)	853255.55
11/1/2017 19:36:57	R1710113-001	Zn (213.857 nm)	0.0175 (ppm)	0.77	0.0175 (ppm)	478.3943
11/1/2017 19:40:16	R1710113-002 100X	Ag (328.068 nm)	0.0001 (ppm)	39.49	0.0001 (ppm)	-121.2995
11/1/2017 19:40:16	R1710113-002 100X	Al (394.401 nm)	2.2913 (ppm)	0.53	2.2913 (ppm)	30680.5709
11/1/2017 19:40:16	R1710113-002 100X	As (188.980 nm)	0.0026 (ppm)	21.89	0.0026 (ppm)	-0.4856
11/1/2017 19:40:16	R1710113-002 100X	B (249.772 nm)	0.0156 (ppm)	0.32	0.0156 (ppm)	538.9798
11/1/2017 19:40:16	R1710113-002 100X	Ba (230.424 nm)	0.0002 (ppm)	39.51	0.0002 (ppm)	15.8815
11/1/2017 19:40:16	R1710113-002 100X	Be (313.107 nm)	0.0002 (ppm)	2.19	0.0002 (ppm)	-225.1228
11/1/2017 19:40:16	R1710113-002 100X	Ca (227.547 nm)	4.4183 (ppm)	1.36	4.4183 (ppm)	265.6489
11/1/2017 19:40:16	R1710113-002 100X	Cd (214.439 nm)	0.0004 (ppm)	23.17	0.0004 (ppm)	20.9773
11/1/2017 19:40:16	R1710113-002 100X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.3844
11/1/2017 19:40:16	R1710113-002 100X	Cr (267.716 nm)	0.0002 (ppm)	37.26	0.0002 (ppm)	11.0657
11/1/2017 19:40:16	R1710113-002 100X	Cu (327.395 nm)	0.0002 (ppm)	74.86	0.0002 (ppm)	32.3047
11/1/2017 19:40:16	R1710113-002 100X	Fe (234.350 nm)	14.7560 o (ppm)	0.36	14.7560 (ppm)	171494.2446
11/1/2017 19:40:16	R1710113-002 100X	K (766.491 nm)	1.4155 (ppm)	0.86	1.4155 (ppm)	4427.8097
11/1/2017 19:40:16	R1710113-002 100X	Mg (279.078 nm)	6.6527 (ppm)	0.36	6.6527 (ppm)	13416.7172
11/1/2017 19:40:16	R1710113-002 100X	Mn (257.610 nm)	0.2354 (ppm)	0.44	0.2354 (ppm)	76189.9796
11/1/2017 19:40:16	R1710113-002 100X	Mo (202.032 nm)	-0.0005 u (ppm)	72.23	-0.0005 (ppm)	11.7341
11/1/2017 19:40:16	R1710113-002 100X	Na (588.995 nm)	1.2337 (ppm)	0.99	1.2337 (ppm)	50633.0117
11/1/2017 19:40:16	R1710113-002 100X	Ni (230.299 nm)	0.0006 (ppm)	79.80	0.0006 (ppm)	-21.8826
11/1/2017 19:40:16	R1710113-002 100X	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.3156
11/1/2017 19:40:16	R1710113-002 100X	Sb (217.582 nm)	-0.0030 u (ppm)	> 100.00	-0.0030 (ppm)	-0.1665
11/1/2017 19:40:16	R1710113-002 100X	Se (196.026 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	4.5222
11/1/2017 19:40:16	R1710113-002 100X	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-1.0955
11/1/2017 19:40:16	R1710113-002 100X	Sr (216.596 nm)	0.0148 (ppm)	0.49	0.0148 (ppm)	218.9437
11/1/2017 19:40:16	R1710113-002 100X	Ti (336.122 nm)	0.0004 (ppm)	43.67	0.0004 (ppm)	-327.0273
11/1/2017 19:40:16	R1710113-002 100X	Tl (351.923 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	12.8153
11/1/2017 19:40:16	R1710113-002 100X	V (292.401 nm)	0.0010 (ppm)	13.83	0.0010 (ppm)	145.3899
11/1/2017 19:40:16	R1710113-002 100X	Y (360.074 nm)	0.99 (Ratio)	0.91	0.99 (Ratio)	923618.82
11/1/2017 19:40:16	R1710113-002 100X	Y_R (360.074 nm)	0.99 (Ratio)	0.91	0.99 (Ratio)	924031.01
11/1/2017 19:40:16	R1710113-002 100X	Zn (213.857 nm)	0.0042 (ppm)	2.18	0.0042 (ppm)	92.1186
11/1/2017 19:43:35	R1710113-002 10X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-127.3366
11/1/2017 19:43:35	R1710113-002 10X	Al (394.401 nm)	23.4414 o (ppm)	0.18	23.4414 (ppm)	313107.1894
11/1/2017 19:43:35	R1710113-002 10X	As (188.980 nm)	0.0018 (ppm)	73.63	0.0018 (ppm)	-1.2562
11/1/2017 19:43:35	R1710113-002 10X	B (249.772 nm)	0.1570 (ppm)	0.32	0.1570 (ppm)	4589.5386
11/1/2017 19:43:35	R1710113-002 10X	Ba (230.424 nm)	0.0031 (ppm)	1.28	0.0031 (ppm)	115.4852
11/1/2017 19:43:35	R1710113-002 10X	Be (313.107 nm)	0.0018 (ppm)	0.21	0.0018 (ppm)	2154.8750
11/1/2017 19:43:35	R1710113-002 10X	Ca (227.547 nm)	43.7135 (ppm)	0.31	43.7135 (ppm)	2573.3613
11/1/2017 19:43:35	R1710113-002 10X	Cd (214.439 nm)	0.0013 (ppm)	6.17	0.0013 (ppm)	43.1141
11/1/2017 19:43:35	R1710113-002 10X	Co (230.786 nm)	0.0024 (ppm)	10.63	0.0024 (ppm)	23.7414
11/1/2017 19:43:35	R1710113-002 10X	Cr (267.716 nm)	0.0015 (ppm)	2.44	0.0015 (ppm)	77.6211
11/1/2017 19:43:35	R1710113-002 10X	Cu (327.395 nm)	0.0002 (ppm)	43.49	0.0002 (ppm)	32.0466
11/1/2017 19:43:35	R1710113-002 10X	Fe (234.350 nm)	126.0783 o (ppm)	0.08	126.0783 (ppm)	1464736.1005
11/1/2017 19:43:35	R1710113-002 10X	K (766.491 nm)	14.2551 (ppm)	0.09	14.2551 (ppm)	44071.0938
11/1/2017 19:43:35	R1710113-002 10X	Mg (279.078 nm)	63.0772 o (ppm)	0.20	63.0772 (ppm)	127269.0982
11/1/2017 19:43:35	R1710113-002 10X	Mn (257.610 nm)	2.1072 o (ppm)	0.17	2.1072 (ppm)	681791.0109
11/1/2017 19:43:35	R1710113-002 10X	Mo (202.032 nm)	-0.0004 u (ppm)	52.87	-0.0004 (ppm)	12.1202
11/1/2017 19:43:35	R1710113-002 10X	Na (588.995 nm)	11.7071 (ppm)	0.31	11.7071 (ppm)	531222.8000

003

CK 11/14/17

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:43:35	R1710113-002 10X	Ni (230.299 nm)	0.0052 (ppm)	10.72	0.0052 (ppm)	9.7667
11/1/2017 19:43:35	R1710113-002 10X	Pb (220.353 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	6.4360
11/1/2017 19:43:35	R1710113-002 10X	Sb (217.582 nm)	-0.0067 u (ppm)	14.69	-0.0067 (ppm)	-5.3780
11/1/2017 19:43:35	R1710113-002 10X	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	5.9904
11/1/2017 19:43:35	R1710113-002 10X	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.5582
11/1/2017 19:43:35	R1710113-002 10X	Sr (216.596 nm)	0.1340 (ppm)	0.34	0.1340 (ppm)	1997.2802
11/1/2017 19:43:35	R1710113-002 10X	Ti (336.122 nm)	0.0056 (ppm)	1.37	0.0056 (ppm)	814.5078
11/1/2017 19:43:35	R1710113-002 10X	Tl (351.923 nm)	-0.0072 u (ppm)	43.68	-0.0072 (ppm)	-5.8564
11/1/2017 19:43:35	R1710113-002 10X	V (292.401 nm)	0.0083 (ppm)	1.52	0.0083 (ppm)	409.7077
11/1/2017 19:43:35	R1710113-002 10X	Y (360.074 nm)	0.95 (Ratio)	0.93	0.95 (Ratio)	893891.72
11/1/2017 19:43:35	R1710113-002 10X	Y_R (360.074 nm)	0.96 (Ratio)	0.94	0.96 (Ratio)	894547.03
11/1/2017 19:43:35	R1710113-002 10X	Zn (213.857 nm)	0.0244 (ppm)	0.70	0.0244 (ppm)	678.2356
11/1/2017 19:46:55	R1710113-002 2X	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-121.5187
11/1/2017 19:46:55	R1710113-002 2X	Al (394.401 nm)	119.5695 o (ppm)	0.43	119.5695 (ppm)	1596749.4403
11/1/2017 19:46:55	R1710113-002 2X	As (188.980 nm)	0.0040 u (ppm)	> 100.00	0.0040 (ppm)	0.8001
11/1/2017 19:46:55	R1710113-002 2X	B (249.772 nm)	0.7241 (ppm)	0.20	0.7241 (ppm)	20839.8955
11/1/2017 19:46:55	R1710113-002 2X	Ba (230.424 nm)	0.0140 (ppm)	0.91	0.0140 (ppm)	497.0856
11/1/2017 19:46:55	R1710113-002 2X	Be (313.107 nm)	0.0079 (ppm)	0.11	0.0079 (ppm)	11508.5647
11/1/2017 19:46:55	R1710113-002 2X	Ca (227.547 nm)	220.6221 o (ppm)	0.47	220.6221 (ppm)	12962.7867
11/1/2017 19:46:55	R1710113-002 2X	Cd (214.439 nm)	0.0061 (ppm)	1.01	0.0061 (ppm)	151.3969
11/1/2017 19:46:55	R1710113-002 2X	Co (230.786 nm)	0.0121 (ppm)	5.00	0.0121 (ppm)	123.2357
11/1/2017 19:46:55	R1710113-002 2X	Cr (267.716 nm)	0.0073 (ppm)	1.39	0.0073 (ppm)	378.9022
11/1/2017 19:46:55	R1710113-002 2X	Cu (327.395 nm)	0.0009 (ppm)	19.17	0.0009 (ppm)	75.9439
11/1/2017 19:46:55	R1710113-002 2X	Fe (234.350 nm)	428.8052 o (ppm)	0.09	428.8052 (ppm)	4981542.7618
11/1/2017 19:46:55	R1710113-002 2X	K (766.491 nm)	71.7920 o (ppm)	0.35	71.7920 (ppm)	221720.1190
11/1/2017 19:46:55	R1710113-002 2X	Mg (279.078 nm)	288.8756 o (ppm)	0.16	288.8756 (ppm)	582881.0855
11/1/2017 19:46:55	R1710113-002 2X	Mn (257.610 nm)	9.0590 o (ppm)	0.03	9.0590 (ppm)	2930895.2377
11/1/2017 19:46:55	R1710113-002 2X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.6005
11/1/2017 19:46:55	R1710113-002 2X	Na (588.995 nm)	57.0132 o (ppm)	0.66	57.0132 (ppm)	2610174.0766
11/1/2017 19:46:55	R1710113-002 2X	Ni (230.299 nm)	0.0196 (ppm)	11.78	0.0196 (ppm)	109.6249
11/1/2017 19:46:55	R1710113-002 2X	Pb (220.353 nm)	0.0063 (ppm)	28.85	0.0063 (ppm)	19.6757
11/1/2017 19:46:55	R1710113-002 2X	Sb (217.582 nm)	-0.0175 u (ppm)	33.03	-0.0175 (ppm)	-20.7709
11/1/2017 19:46:55	R1710113-002 2X	Se (196.026 nm)	0.0068 (ppm)	81.38	0.0068 (ppm)	11.4349
11/1/2017 19:46:55	R1710113-002 2X	Sn (189.925 nm)	0.0038 u (ppm)	> 100.00	0.0038 (ppm)	4.7082
11/1/2017 19:46:55	R1710113-002 2X	Sr (216.596 nm)	0.5814 (ppm)	0.18	0.5814 (ppm)	8671.1568
11/1/2017 19:46:55	R1710113-002 2X	Ti (336.122 nm)	0.0271 (ppm)	3.58	0.0271 (ppm)	5527.6409
11/1/2017 19:46:55	R1710113-002 2X	Tl (351.923 nm)	-0.0270 u (ppm)	7.77	-0.0270 (ppm)	-61.9305
11/1/2017 19:46:55	R1710113-002 2X	V (292.401 nm)	0.0391 (ppm)	0.64	0.0391 (ppm)	1516.5528
11/1/2017 19:46:55	R1710113-002 2X	Y (360.074 nm)	0.94 (Ratio)	0.52	0.94 (Ratio)	882147.44
11/1/2017 19:46:55	R1710113-002 2X	Y_R (360.074 nm)	0.94 (Ratio)	0.52	0.94 (Ratio)	882892.85
11/1/2017 19:46:55	R1710113-002 2X	Zn (213.857 nm)	0.1154 (ppm)	0.52	0.1154 (ppm)	3321.3620
11/1/2017 19:50:14	R1710113-002	Ag (328.068 nm)	0.0002 (ppm)	94.21	0.0002 (ppm)	-112.6849
11/1/2017 19:50:14	R1710113-002	Al (394.401 nm)	225.9599 o (ppm)	0.64	225.9599 (ppm)	3017429.7443
11/1/2017 19:50:14	R1710113-002	As (188.980 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-2.0134
11/1/2017 19:50:14	R1710113-002	B (249.772 nm)	1.2943 (ppm)	0.42	1.2943 (ppm)	37181.9334
11/1/2017 19:50:14	R1710113-002	Ba (230.424 nm)	0.0240 (ppm)	2.30	0.0240 (ppm)	846.3197
11/1/2017 19:50:14	R1710113-002	Be (313.107 nm)	0.0140 (ppm)	0.63	0.0140 (ppm)	20763.8725
11/1/2017 19:50:14	R1710113-002	Ca (227.547 nm)	418.3976 o (ppm)	0.82	418.3976 (ppm)	24577.6754
11/1/2017 19:50:14	R1710113-002	Cd (214.439 nm)	0.0111 (ppm)	1.21	0.0111 (ppm)	265.2334
11/1/2017 19:50:14	R1710113-002	Co (230.786 nm)	0.0222 (ppm)	4.75	0.0222 (ppm)	227.6747
11/1/2017 19:50:14	R1710113-002	Cr (267.716 nm)	0.0129 (ppm)	1.29	0.0129 (ppm)	671.2079

003

11/14/17

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:50:14	R1710113-002	Cu (327.395 nm)	0.0016 (ppm)	11.60	0.0016 (ppm)	124.6388
11/1/2017 19:50:14	R1710113-002	Fe (234.350 nm)	578.7329 o (ppm)	0.58	578.7329 (ppm)	6723267.6786
11/1/2017 19:50:14	R1710113-002	K (766.491 nm)	135.5928 o (ppm)	0.51	135.5928 (ppm)	418709.0019
11/1/2017 19:50:14	R1710113-002	Mg (279.078 nm)	502.9522 o (ppm)	0.53	502.9522 (ppm)	1014841.0345
11/1/2017 19:50:14	R1710113-002	Mn (257.610 nm)	15.3322 o (ppm)	0.68	15.3322 (ppm)	4960449.8967
11/1/2017 19:50:14	R1710113-002	Mo (202.032 nm)	0.0005 (ppm)	88.62	0.0005 (ppm)	21.7213
11/1/2017 19:50:14	R1710113-002	Na (588.995 nm)	104.2667 o (ppm)	0.83	104.2667 (ppm)	4778487.1985
11/1/2017 19:50:14	R1710113-002	Ni (230.299 nm)	0.0325 (ppm)	15.59	0.0325 (ppm)	199.4915
11/1/2017 19:50:14	R1710113-002	Pb (220.353 nm)	0.0097 (ppm)	48.40	0.0097 (ppm)	27.3473
11/1/2017 19:50:14	R1710113-002	Sb (217.582 nm)	-0.0424 u (ppm)	17.92	-0.0424 (ppm)	-56.2973
11/1/2017 19:50:14	R1710113-002	Se (196.026 nm)	0.0215 (ppm)	8.53	0.0215 (ppm)	24.2695
11/1/2017 19:50:14	R1710113-002	Sn (189.925 nm)	0.0029 u (ppm)	> 100.00	0.0029 (ppm)	3.4801
11/1/2017 19:50:14	R1710113-002	Sr (216.596 nm)	1.0129 (ppm)	0.56	1.0129 (ppm)	15109.0142
11/1/2017 19:50:14	R1710113-002	Ti (336.122 nm)	0.0464 (ppm)	2.40	0.0464 (ppm)	9749.3605
11/1/2017 19:50:14	R1710113-002	Tl (351.923 nm)	-0.0441 u (ppm)	12.35	-0.0441 (ppm)	-110.6167
11/1/2017 19:50:14	R1710113-002	V (292.401 nm)	0.0706 (ppm)	0.49	0.0706 (ppm)	2653.0249
11/1/2017 19:50:14	R1710113-002	Y (360.074 nm)	0.97 (Ratio)	1.01	0.97 (Ratio)	910688.43
11/1/2017 19:50:14	R1710113-002	Y_R (360.074 nm)	0.97 (Ratio)	1.02	0.97 (Ratio)	911398.45
11/1/2017 19:50:14	R1710113-002	Zn (213.857 nm)	0.2093 (ppm)	0.64	0.2093 (ppm)	6050.1473
11/1/2017 19:53:33	R1710113-003 100X	Ag (328.068 nm)	0.0001 (ppm)	49.23	0.0001 (ppm)	-121.8748
11/1/2017 19:53:33	R1710113-003 100X	Al (394.401 nm)	2.1453 (ppm)	0.72	2.1453 (ppm)	28730.4782
11/1/2017 19:53:33	R1710113-003 100X	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-2.4859
11/1/2017 19:53:33	R1710113-003 100X	B (249.772 nm)	0.0147 (ppm)	1.32	0.0147 (ppm)	511.3297
11/1/2017 19:53:33	R1710113-003 100X	Ba (230.424 nm)	0.0009 (ppm)	11.25	0.0009 (ppm)	40.9885
11/1/2017 19:53:33	R1710113-003 100X	Be (313.107 nm)	0.0002 (ppm)	1.87	0.0002 (ppm)	-266.3804
11/1/2017 19:53:33	R1710113-003 100X	Ca (227.547 nm)	4.1605 (ppm)	0.66	4.1605 (ppm)	250.5040
11/1/2017 19:53:33	R1710113-003 100X	Cd (214.439 nm)	0.0002 (ppm)	21.56	0.0002 (ppm)	16.9038
11/1/2017 19:53:33	R1710113-003 100X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.6161
11/1/2017 19:53:33	R1710113-003 100X	Cr (267.716 nm)	0.0003 (ppm)	21.00	0.0003 (ppm)	12.6576
11/1/2017 19:53:33	R1710113-003 100X	Cu (327.395 nm)	0.0001 (ppm)	98.69	0.0001 (ppm)	28.0075
11/1/2017 19:53:33	R1710113-003 100X	Fe (234.350 nm)	12.7965 o (ppm)	0.58	12.7965 (ppm)	148731.3175
11/1/2017 19:53:33	R1710113-003 100X	K (766.491 nm)	1.3852 (ppm)	2.67	1.3852 (ppm)	4334.3381
11/1/2017 19:53:33	R1710113-003 100X	Mg (279.078 nm)	5.8880 (ppm)	0.58	5.8880 (ppm)	11873.7464
11/1/2017 19:53:33	R1710113-003 100X	Mn (257.610 nm)	0.2037 (ppm)	0.48	0.2037 (ppm)	65940.9734
11/1/2017 19:53:33	R1710113-003 100X	Mo (202.032 nm)	-0.0006 u (ppm)	45.81	-0.0006 (ppm)	10.2717
11/1/2017 19:53:33	R1710113-003 100X	Na (588.995 nm)	1.1104 (ppm)	1.01	1.1104 (ppm)	44973.1574
11/1/2017 19:53:33	R1710113-003 100X	Ni (230.299 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-22.5428
11/1/2017 19:53:33	R1710113-003 100X	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	4.9506
11/1/2017 19:53:33	R1710113-003 100X	Sb (217.582 nm)	-0.0022 u (ppm)	79.29	-0.0022 (ppm)	0.9289
11/1/2017 19:53:33	R1710113-003 100X	Se (196.026 nm)	0.0024 (ppm)	68.83	0.0024 (ppm)	7.6227
11/1/2017 19:53:33	R1710113-003 100X	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.1867
11/1/2017 19:53:33	R1710113-003 100X	Sr (216.596 nm)	0.0140 (ppm)	1.26	0.0140 (ppm)	207.7553
11/1/2017 19:53:33	R1710113-003 100X	Ti (336.122 nm)	0.0038 (ppm)	11.24	0.0038 (ppm)	407.7070
11/1/2017 19:53:33	R1710113-003 100X	Tl (351.923 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	10.0339
11/1/2017 19:53:33	R1710113-003 100X	V (292.401 nm)	0.0010 (ppm)	2.01	0.0010 (ppm)	146.5470
11/1/2017 19:53:33	R1710113-003 100X	Y (360.074 nm)	0.99 (Ratio)	0.87	0.99 (Ratio)	925169.96
11/1/2017 19:53:33	R1710113-003 100X	Y_R (360.074 nm)	0.99 (Ratio)	0.87	0.99 (Ratio)	925583.70
11/1/2017 19:53:33	R1710113-003 100X	Zn (213.857 nm)	0.0053 (ppm)	0.88	0.0053 (ppm)	124.2527
11/1/2017 19:56:52	Continuing Calibration Verification	Ag (328.068 nm)	0.4953 (ppm)	0.33	0.4953 (ppm)	36261.3634
11/1/2017 19:56:52	Continuing Calibration Verification	Al (394.401 nm)	9.6352 (ppm)	0.49	9.6352 (ppm)	128746.6009
11/1/2017 19:56:52	Continuing Calibration Verification	As (188.980 nm)	0.9763 (ppm)	0.50	0.9763 (ppm)	900.6614

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 19:56:52	Continuing Calibration Verification	B (249.772 nm)	2.4432 (ppm)	0.30	2.4432 (ppm)	70106.2686
11/1/2017 19:56:52	Continuing Calibration Verification	Ba (230.424 nm)	10.4373 (ppm)	0.16	10.4373 (ppm)	365287.0851
11/1/2017 19:56:52	Continuing Calibration Verification	Be (313.107 nm)	0.2569 (ppm)	0.51	0.2569 (ppm)	389196.7319
11/1/2017 19:56:52	Continuing Calibration Verification	Ca (227.547 nm)	24.4257 (ppm)	0.45	24.4257 (ppm)	1440.6359
11/1/2017 19:56:52	Continuing Calibration Verification	Cd (214.439 nm)	0.5049 (ppm)	0.15	0.5049 (ppm)	11495.0690
11/1/2017 19:56:52	Continuing Calibration Verification	Co (230.786 nm)	2.6236 (ppm)	0.29	2.6236 (ppm)	27001.2771
11/1/2017 19:56:52	Continuing Calibration Verification	Cr (267.716 nm)	0.5115 (ppm)	0.17	0.5115 (ppm)	26674.6678
11/1/2017 19:56:52	Continuing Calibration Verification	Cu (327.395 nm)	1.2184 (ppm)	0.69	1.2184 (ppm)	76547.6484
11/1/2017 19:56:52	Continuing Calibration Verification	Fe (234.350 nm)	4.9318 (ppm)	0.29	4.9318 (ppm)	57365.9345
11/1/2017 19:56:52	Continuing Calibration Verification	K (766.491 nm)	24.9808 (ppm)	0.68	24.9808 (ppm)	77187.4647
11/1/2017 19:56:52	Continuing Calibration Verification	Mg (279.078 nm)	25.3031 (ppm)	0.31	25.3031 (ppm)	51049.1586
11/1/2017 19:56:52	Continuing Calibration Verification	Mn (257.610 nm)	0.7647 (ppm)	0.29	0.7647 (ppm)	247439.2749
11/1/2017 19:56:52	Continuing Calibration Verification	Mo (202.032 nm)	2.4274 (ppm)	0.24	2.4274 (ppm)	25989.5568
11/1/2017 19:56:52	Continuing Calibration Verification	Na (588.995 nm)	25.1145 (ppm)	0.91	25.1145 (ppm)	1146443.9010
11/1/2017 19:56:52	Continuing Calibration Verification	Ni (230.299 nm)	2.0632 (ppm)	0.20	2.0632 (ppm)	14290.7274
11/1/2017 19:56:52	Continuing Calibration Verification	Pb (220.353 nm)	0.5035 (ppm)	0.22	0.5035 (ppm)	1129.6172
11/1/2017 19:56:52	Continuing Calibration Verification	Sb (217.582 nm)	4.9447 (ppm)	0.56	4.9447 (ppm)	7058.2368
11/1/2017 19:56:52	Continuing Calibration Verification	Se (196.026 nm)	0.4875 (ppm)	0.25	0.4875 (ppm)	431.3524
11/1/2017 19:56:52	Continuing Calibration Verification	Sn (189.925 nm)	5.1258 (ppm)	0.66	5.1258 (ppm)	6531.2939
11/1/2017 19:56:52	Continuing Calibration Verification	Sr (216.596 nm)	2.5394 (ppm)	0.35	2.5394 (ppm)	37879.2349
11/1/2017 19:56:52	Continuing Calibration Verification	Ti (336.122 nm)	2.5206 (ppm)	0.80	2.5206 (ppm)	552359.6567
11/1/2017 19:56:52	Continuing Calibration Verification	Tl (351.923 nm)	0.9986 (ppm)	0.39	0.9986 (ppm)	2849.7267
11/1/2017 19:56:52	Continuing Calibration Verification	V (292.401 nm)	2.5546 (ppm)	0.35	2.5546 (ppm)	92066.8760
11/1/2017 19:56:52	Continuing Calibration Verification	Y (360.074 nm)	0.94 (Ratio)	0.70	0.94 (Ratio)	884293.54
11/1/2017 19:56:52	Continuing Calibration Verification	Y_R (360.074 nm)	0.95 (Ratio)	0.70	0.95 (Ratio)	884806.70
11/1/2017 19:56:52	Continuing Calibration Verification	Zn (213.857 nm)	1.0130 (ppm)	0.28	1.0130 (ppm)	29401.3602
11/1/2017 20:00:11	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-123.3515
11/1/2017 20:00:11	Continuing Calibration Blank	Al (394.401 nm)	0.0003 (ppm)	74.98	0.0003 (ppm)	87.1324
11/1/2017 20:00:11	Continuing Calibration Blank	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-2.6007
11/1/2017 20:00:11	Continuing Calibration Blank	B (249.772 nm)	0.0008 (ppm)	96.43	0.0008 (ppm)	115.0974
11/1/2017 20:00:11	Continuing Calibration Blank	Ba (230.424 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	11.5434
11/1/2017 20:00:11	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-503.9519
11/1/2017 20:00:11	Continuing Calibration Blank	Ca (227.547 nm)	-0.0070 u (ppm)	> 100.00	-0.0070 (ppm)	5.7588
11/1/2017 20:00:11	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	35.08	0.0001 (ppm)	15.8269
11/1/2017 20:00:11	Continuing Calibration Blank	Co (230.786 nm)	-0.0002 u (ppm)	66.65	-0.0002 (ppm)	-3.4246
11/1/2017 20:00:11	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-0.2943
11/1/2017 20:00:11	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	16.0898
11/1/2017 20:00:11	Continuing Calibration Blank	Fe (234.350 nm)	0.0051 (ppm)	6.24	0.0051 (ppm)	131.5252
11/1/2017 20:00:11	Continuing Calibration Blank	K (766.491 nm)	0.0371 (ppm)	27.69	0.0371 (ppm)	171.9209
11/1/2017 20:00:11	Continuing Calibration Blank	Mg (279.078 nm)	0.0025 (ppm)	69.22	0.0025 (ppm)	-1.9746
11/1/2017 20:00:11	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 (ppm)	43.74	0.0000 (ppm)	23.6017
11/1/2017 20:00:11	Continuing Calibration Blank	Mo (202.032 nm)	0.0016 (ppm)	11.44	0.0016 (ppm)	34.2125
11/1/2017 20:00:11	Continuing Calibration Blank	Na (588.995 nm)	-0.0010 u (ppm)	33.67	-0.0010 (ppm)	-6023.3060
11/1/2017 20:00:11	Continuing Calibration Blank	Ni (230.299 nm)	0.0004 (ppm)	8.97	0.0004 (ppm)	-23.4655
11/1/2017 20:00:11	Continuing Calibration Blank	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	6.1639
11/1/2017 20:00:11	Continuing Calibration Blank	Sb (217.582 nm)	-0.0009 u (ppm)	90.10	-0.0009 (ppm)	2.7895
11/1/2017 20:00:11	Continuing Calibration Blank	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.7330
11/1/2017 20:00:11	Continuing Calibration Blank	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.5533
11/1/2017 20:00:11	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	0.6034
11/1/2017 20:00:11	Continuing Calibration Blank	Ti (336.122 nm)	0.0006 (ppm)	1.56	0.0006 (ppm)	-297.3072
11/1/2017 20:00:11	Continuing Calibration Blank	Tl (351.923 nm)	-0.0044 u (ppm)	66.00	-0.0044 (ppm)	2.0897

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:00:11	Continuing Calibration Blank	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	110.7742
11/1/2017 20:00:11	Continuing Calibration Blank	Y (360.074 nm)	0.99 (Ratio)	0.91	0.99 (Ratio)	923348.22
11/1/2017 20:00:11	Continuing Calibration Blank	Y_R (360.074 nm)	0.99 (Ratio)	0.91	0.99 (Ratio)	923673.64
11/1/2017 20:00:11	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-31.1745
11/1/2017 20:03:29	R1710113-003 10X	Ag (328.068 nm)	0.0001 (ppm)	49.52	0.0001 (ppm)	-119.4278
11/1/2017 20:03:29	R1710113-003 10X	Al (394.401 nm)	21.9676 (ppm)	0.11	21.9676 (ppm)	293426.8956
11/1/2017 20:03:29	R1710113-003 10X	As (188.980 nm)	0.0041 (ppm)	34.45	0.0041 (ppm)	0.8888
11/1/2017 20:03:29	R1710113-003 10X	B (249.772 nm)	0.1442 (ppm)	0.39	0.1442 (ppm)	4222.9894
11/1/2017 20:03:29	R1710113-003 10X	Ba (230.424 nm)	0.0092 (ppm)	0.47	0.0092 (ppm)	328.2660
11/1/2017 20:03:29	R1710113-003 10X	Be (313.107 nm)	0.0015 (ppm)	0.02	0.0015 (ppm)	1835.2865
11/1/2017 20:03:29	R1710113-003 10X	Ca (227.547 nm)	41.4344 (ppm)	0.51	41.4344 (ppm)	2439.5131
11/1/2017 20:03:29	R1710113-003 10X	Cd (214.439 nm)	0.0012 (ppm)	3.94	0.0012 (ppm)	39.4247
11/1/2017 20:03:29	R1710113-003 10X	Co (230.786 nm)	0.0028 (ppm)	17.33	0.0028 (ppm)	27.0185
11/1/2017 20:03:29	R1710113-003 10X	Cr (267.716 nm)	0.0027 (ppm)	2.14	0.0027 (ppm)	141.8145
11/1/2017 20:03:29	R1710113-003 10X	Cu (327.395 nm)	0.0012 (ppm)	22.26	0.0012 (ppm)	96.2727
11/1/2017 20:03:29	R1710113-003 10X	Fe (234.350 nm)	110.3242 o (ppm)	0.31	110.3242 (ppm)	1281718.9133
11/1/2017 20:03:29	R1710113-003 10X	K (766.491 nm)	13.1095 (ppm)	0.20	13.1095 (ppm)	40533.7810
11/1/2017 20:03:29	R1710113-003 10X	Mg (279.078 nm)	55.8819 o (ppm)	0.32	55.8819 (ppm)	112750.4475
11/1/2017 20:03:29	R1710113-003 10X	Mn (257.610 nm)	1.8354 o (ppm)	0.35	1.8354 (ppm)	593838.0780
11/1/2017 20:03:29	R1710113-003 10X	Mo (202.032 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	18.3494
11/1/2017 20:03:29	R1710113-003 10X	Na (588.995 nm)	10.4926 (ppm)	0.10	10.4926 (ppm)	475492.4562
11/1/2017 20:03:29	R1710113-003 10X	Ni (230.299 nm)	0.0049 (ppm)	17.48	0.0049 (ppm)	7.6887
11/1/2017 20:03:29	R1710113-003 10X	Pb (220.353 nm)	0.0020 (ppm)	72.99	0.0020 (ppm)	10.0497
11/1/2017 20:03:29	R1710113-003 10X	Sb (217.582 nm)	-0.0059 u (ppm)	16.70	-0.0059 (ppm)	-4.2342
11/1/2017 20:03:29	R1710113-003 10X	Se (196.026 nm)	0.0021 (ppm)	62.79	0.0021 (ppm)	7.3453
11/1/2017 20:03:29	R1710113-003 10X	Sn (189.925 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-1.5402
11/1/2017 20:03:29	R1710113-003 10X	Sr (216.596 nm)	0.1278 (ppm)	0.15	0.1278 (ppm)	1905.7100
11/1/2017 20:03:29	R1710113-003 10X	Ti (336.122 nm)	0.0392 (ppm)	1.55	0.0392 (ppm)	8180.4868
11/1/2017 20:03:29	R1710113-003 10X	Tl (351.923 nm)	-0.0092 u (ppm)	19.96	-0.0092 (ppm)	-11.5566
11/1/2017 20:03:29	R1710113-003 10X	V (292.401 nm)	0.0100 (ppm)	1.70	0.0100 (ppm)	468.5752
11/1/2017 20:03:29	R1710113-003 10X	Y (360.074 nm)	0.96 (Ratio)	0.89	0.96 (Ratio)	896417.93
11/1/2017 20:03:29	R1710113-003 10X	Y_R (360.074 nm)	0.96 (Ratio)	0.89	0.96 (Ratio)	896916.43
11/1/2017 20:03:29	R1710113-003 10X	Zn (213.857 nm)	0.0338 (ppm)	0.95	0.0338 (ppm)	949.9434
11/1/2017 20:06:48	R1710113-003 2X	Ag (328.068 nm)	0.0001 (ppm)	91.83	0.0001 (ppm)	-121.5629
11/1/2017 20:06:48	R1710113-003 2X	Al (394.401 nm)	112.8444 o (ppm)	0.37	112.8444 (ppm)	1506946.4168
11/1/2017 20:06:48	R1710113-003 2X	As (188.980 nm)	0.0048 (ppm)	29.68	0.0048 (ppm)	1.5209
11/1/2017 20:06:48	R1710113-003 2X	B (249.772 nm)	0.6695 (ppm)	0.17	0.6695 (ppm)	19277.5962
11/1/2017 20:06:48	R1710113-003 2X	Ba (230.424 nm)	0.0407 (ppm)	0.82	0.0407 (ppm)	1431.0998
11/1/2017 20:06:48	R1710113-003 2X	Be (313.107 nm)	0.0070 (ppm)	0.17	0.0070 (ppm)	10106.1858
11/1/2017 20:06:48	R1710113-003 2X	Ca (227.547 nm)	209.7740 o (ppm)	0.36	209.7740 (ppm)	12325.7063
11/1/2017 20:06:48	R1710113-003 2X	Cd (214.439 nm)	0.0050 (ppm)	9.30	0.0050 (ppm)	125.5628
11/1/2017 20:06:48	R1710113-003 2X	Co (230.786 nm)	0.0140 (ppm)	9.24	0.0140 (ppm)	142.2777
11/1/2017 20:06:48	R1710113-003 2X	Cr (267.716 nm)	0.0126 (ppm)	2.23	0.0126 (ppm)	656.6387
11/1/2017 20:06:48	R1710113-003 2X	Cu (327.395 nm)	0.0055 (ppm)	2.48	0.0055 (ppm)	365.2709
11/1/2017 20:06:48	R1710113-003 2X	Fe (234.350 nm)	393.3079 o (ppm)	0.32	393.3079 (ppm)	4569168.0243
11/1/2017 20:06:48	R1710113-003 2X	K (766.491 nm)	66.2205 o (ppm)	0.36	66.2205 (ppm)	204517.6229
11/1/2017 20:06:48	R1710113-003 2X	Mg (279.078 nm)	259.0582 o (ppm)	0.37	259.0582 (ppm)	522715.9166
11/1/2017 20:06:48	R1710113-003 2X	Mn (257.610 nm)	7.9807 o (ppm)	0.21	7.9807 (ppm)	2582021.4238
11/1/2017 20:06:48	R1710113-003 2X	Mo (202.032 nm)	0.0010 (ppm)	16.82	0.0010 (ppm)	27.4718
11/1/2017 20:06:48	R1710113-003 2X	Na (588.995 nm)	51.4179 (ppm)	0.26	51.4179 (ppm)	2353421.6488
11/1/2017 20:06:48	R1710113-003 2X	Ni (230.299 nm)	0.0177 (ppm)	4.90	0.0177 (ppm)	96.5891

003 002

OK 11/14/17

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:06:48	R1710113-003 2X	Pb (220.353 nm)	0.0104 (ppm)	12.35	0.0104 (ppm)	28.8962
11/1/2017 20:06:48	R1710113-003 2X	Sb (217.582 nm)	-0.0169 u (ppm)	12.20	-0.0169 (ppm)	-19.9358
11/1/2017 20:06:48	R1710113-003 2X	Se (196.026 nm)	0.0090 (ppm)	64.62	0.0090 (ppm)	13.4017
11/1/2017 20:06:48	R1710113-003 2X	Sn (189.925 nm)	0.0033 (ppm)	79.87	0.0033 (ppm)	4.0073
11/1/2017 20:06:48	R1710113-003 2X	Sr (216.596 nm)	0.5625 (ppm)	0.09	0.5625 (ppm)	8390.2765
11/1/2017 20:06:48	R1710113-003 2X	Ti (336.122 nm)	0.1729 (ppm)	1.38	0.1729 (ppm)	37502.2974
11/1/2017 20:06:48	R1710113-003 2X	Tl (351.923 nm)	-0.0216 u (ppm)	7.91	-0.0216 (ppm)	-46.7780
11/1/2017 20:06:48	R1710113-003 2X	V (292.401 nm)	0.0455 (ppm)	0.68	0.0455 (ppm)	1746.2743
11/1/2017 20:06:48	R1710113-003 2X	Y (360.074 nm)	0.94 (Ratio)	0.78	0.94 (Ratio)	878993.98
11/1/2017 20:06:48	R1710113-003 2X	Y_R (360.074 nm)	0.94 (Ratio)	0.78	0.94 (Ratio)	879612.00
11/1/2017 20:06:48	R1710113-003 2X	Zn (213.857 nm)	0.1585 (ppm)	0.43	0.1585 (ppm)	4574.3084
11/1/2017 20:10:07	R1710113-003	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-119.0291
11/1/2017 20:10:07	R1710113-003	Al (394.401 nm)	217.2177 o (ppm)	0.49	217.2177 (ppm)	2900691.0578
11/1/2017 20:10:07	R1710113-003	As (188.980 nm)	0.0063 (ppm)	90.56	0.0063 (ppm)	2.9705
11/1/2017 20:10:07	R1710113-003	B (249.772 nm)	1.2129 (ppm)	0.25	1.2129 (ppm)	34850.2103
11/1/2017 20:10:07	R1710113-003	Be (230.424 nm)	0.0714 (ppm)	1.68	0.0714 (ppm)	2506.3939
11/1/2017 20:10:07	R1710113-003	Be (313.107 nm)	0.0126 (ppm)	0.44	0.0126 (ppm)	18569.1157
11/1/2017 20:10:07	R1710113-003	Ca (227.547 nm)	407.6304 o (ppm)	0.49	407.6304 (ppm)	23945.3423
11/1/2017 20:10:07	R1710113-003	Cd (214.439 nm)	0.0103 (ppm)	0.93	0.0103 (ppm)	246.3798
11/1/2017 20:10:07	R1710113-003	Co (230.786 nm)	0.0234 (ppm)	3.34	0.0234 (ppm)	239.8438
11/1/2017 20:10:07	R1710113-003	Cr (267.716 nm)	0.0230 (ppm)	1.67	0.0230 (ppm)	1197.4714
11/1/2017 20:10:07	R1710113-003	Cu (327.395 nm)	0.0108 (ppm)	1.17	0.0108 (ppm)	699.9100
11/1/2017 20:10:07	R1710113-003	Fe (234.350 nm)	546.3450 o (ppm)	0.26	546.3450 (ppm)	6347014.3549
11/1/2017 20:10:07	R1710113-003	K (766.491 nm)	127.9568 o (ppm)	0.55	127.9568 (ppm)	395132.5889
11/1/2017 20:10:07	R1710113-003	Mg (279.078 nm)	458.7389 o (ppm)	0.51	458.7389 (ppm)	925628.1296
11/1/2017 20:10:07	R1710113-003	Mn (257.610 nm)	13.8017 o (ppm)	0.43	13.8017 (ppm)	4465294.0652
11/1/2017 20:10:07	R1710113-003	Mo (202.032 nm)	0.0010 (ppm)	83.75	0.0010 (ppm)	27.4136
11/1/2017 20:10:07	R1710113-003	Na (588.995 nm)	96.3509 o (ppm)	0.64	96.3509 (ppm)	4415253.4778
11/1/2017 20:10:07	R1710113-003	Ni (230.299 nm)	0.0292 (ppm)	5.58	0.0292 (ppm)	176.8102
11/1/2017 20:10:07	R1710113-003	Pb (220.353 nm)	0.0236 (ppm)	5.25	0.0236 (ppm)	58.2897
11/1/2017 20:10:07	R1710113-003	Sb (217.582 nm)	-0.0315 u (ppm)	7.88	-0.0315 (ppm)	-40.8223
11/1/2017 20:10:07	R1710113-003	Se (196.026 nm)	0.0156 (ppm)	76.79	0.0156 (ppm)	19.1164
11/1/2017 20:10:07	R1710113-003	Sn (189.925 nm)	0.0028 (ppm)	72.84	0.0028 (ppm)	3.4161
11/1/2017 20:10:07	R1710113-003	Sr (216.596 nm)	0.9918 (ppm)	0.38	0.9918 (ppm)	14793.7921
11/1/2017 20:10:07	R1710113-003	Ti (336.122 nm)	0.3119 (ppm)	1.04	0.3119 (ppm)	67983.8905
11/1/2017 20:10:07	R1710113-003	Tl (351.923 nm)	-0.0374 u (ppm)	10.45	-0.0374 (ppm)	-91.6602
11/1/2017 20:10:07	R1710113-003	V (292.401 nm)	0.0830 (ppm)	0.29	0.0830 (ppm)	3096.1291
11/1/2017 20:10:07	R1710113-003	Y (360.074 nm)	0.96 (Ratio)	0.85	0.96 (Ratio)	903015.73
11/1/2017 20:10:07	R1710113-003	Y_R (360.074 nm)	0.97 (Ratio)	0.84	0.97 (Ratio)	903626.97
11/1/2017 20:10:07	R1710113-003	Zn (213.857 nm)	0.2929 (ppm)	0.18	0.2929 (ppm)	8479.1449
11/1/2017 20:13:26	R1710113-004 100X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-126.5575
11/1/2017 20:13:26	R1710113-004 100X	Al (394.401 nm)	2.1655 (ppm)	0.76	2.1655 (ppm)	28999.8148
11/1/2017 20:13:26	R1710113-004 100X	As (188.980 nm)	0.0030 (ppm)	24.45	0.0030 (ppm)	-0.1538
11/1/2017 20:13:26	R1710113-004 100X	B (249.772 nm)	0.0147 (ppm)	2.40	0.0147 (ppm)	513.0801
11/1/2017 20:13:26	R1710113-004 100X	Be (230.424 nm)	0.0011 (ppm)	7.44	0.0011 (ppm)	44.8515
11/1/2017 20:13:26	R1710113-004 100X	Be (313.107 nm)	0.0002 (ppm)	7.11	0.0002 (ppm)	-277.6653
11/1/2017 20:13:26	R1710113-004 100X	Ca (227.547 nm)	4.0997 (ppm)	0.87	4.0997 (ppm)	246.9335
11/1/2017 20:13:26	R1710113-004 100X	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	15.1999
11/1/2017 20:13:26	R1710113-004 100X	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.0630
11/1/2017 20:13:26	R1710113-004 100X	Cr (267.716 nm)	0.0003 (ppm)	10.29	0.0003 (ppm)	17.5949
11/1/2017 20:13:26	R1710113-004 100X	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	26.6422

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:13:26	R1710113-004 100X	Fe (234.350 nm)	12.6459 o (ppm)	0.63	12.6459 (ppm)	146980.8308
11/1/2017 20:13:26	R1710113-004 100X	K (766.491 nm)	1.3894 (ppm)	1.99	1.3894 (ppm)	4347.3633
11/1/2017 20:13:26	R1710113-004 100X	Mg (279.078 nm)	5.8112 (ppm)	0.71	5.8112 (ppm)	11718.6586
11/1/2017 20:13:26	R1710113-004 100X	Mn (257.610 nm)	0.2014 (ppm)	0.61	0.2014 (ppm)	65176.0141
11/1/2017 20:13:26	R1710113-004 100X	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	13.9667
11/1/2017 20:13:26	R1710113-004 100X	Na (588.995 nm)	1.0868 (ppm)	0.92	1.0868 (ppm)	43888.7560
11/1/2017 20:13:26	R1710113-004 100X	Ni (230.299 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-22.9466
11/1/2017 20:13:26	R1710113-004 100X	Pb (220.353 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.9709
11/1/2017 20:13:26	R1710113-004 100X	Sb (217.582 nm)	-0.0039 u (ppm)	4.69	-0.0039 (ppm)	-1.3683
11/1/2017 20:13:26	R1710113-004 100X	Se (196.026 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	4.0527
11/1/2017 20:13:26	R1710113-004 100X	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.1442
11/1/2017 20:13:26	R1710113-004 100X	Sr (216.596 nm)	0.0138 (ppm)	1.93	0.0138 (ppm)	204.1662
11/1/2017 20:13:26	R1710113-004 100X	Ti (336.122 nm)	0.0073 (ppm)	6.31	0.0073 (ppm)	1174.3168
11/1/2017 20:13:26	R1710113-004 100X	Tl (351.923 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	12.1115
11/1/2017 20:13:26	R1710113-004 100X	V (292.401 nm)	0.0010 (ppm)	13.99	0.0010 (ppm)	144.9202
11/1/2017 20:13:26	R1710113-004 100X	Y (360.074 nm)	0.99 (Ratio)	0.95	0.99 (Ratio)	928827.44
11/1/2017 20:13:26	R1710113-004 100X	Y_R (360.074 nm)	0.99 (Ratio)	0.95	0.99 (Ratio)	928965.03
11/1/2017 20:13:26	R1710113-004 100X	Zn (213.857 nm)	0.0062 (ppm)	0.42	0.0062 (ppm)	149.1934
11/1/2017 20:16:45	R1710113-004 10X	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-121.5393
11/1/2017 20:16:45	R1710113-004 10X	Al (394.401 nm)	22.5265 o (ppm)	0.50	22.5265 (ppm)	300889.2937
11/1/2017 20:16:45	R1710113-004 10X	As (188.980 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.9362
11/1/2017 20:16:45	R1710113-004 10X	B (249.772 nm)	0.1432 (ppm)	0.30	0.1432 (ppm)	4195.2573
11/1/2017 20:16:45	R1710113-004 10X	Ba (230.424 nm)	0.0108 (ppm)	1.57	0.0108 (ppm)	384.6134
11/1/2017 20:16:45	R1710113-004 10X	Be (313.107 nm)	0.0016 (ppm)	0.21	0.0016 (ppm)	1847.1852
11/1/2017 20:16:45	R1710113-004 10X	Ca (227.547 nm)	41.4954 (ppm)	0.46	41.4954 (ppm)	2443.0975
11/1/2017 20:16:45	R1710113-004 10X	Cd (214.439 nm)	0.0011 (ppm)	8.01	0.0011 (ppm)	36.5467
11/1/2017 20:16:45	R1710113-004 10X	Co (230.786 nm)	0.0024 (ppm)	6.75	0.0024 (ppm)	23.0372
11/1/2017 20:16:45	R1710113-004 10X	Cr (267.716 nm)	0.0031 (ppm)	1.05	0.0031 (ppm)	162.0838
11/1/2017 20:16:45	R1710113-004 10X	Cu (327.395 nm)	0.0012 (ppm)	15.11	0.0012 (ppm)	99.4955
11/1/2017 20:16:45	R1710113-004 10X	Fe (234.350 nm)	110.5280 o (ppm)	0.41	110.5280 (ppm)	1284086.6746
11/1/2017 20:16:45	R1710113-004 10X	K (766.491 nm)	13.2583 (ppm)	0.57	13.2583 (ppm)	40993.3557
11/1/2017 20:16:45	R1710113-004 10X	Mg (279.078 nm)	55.9462 o (ppm)	0.34	55.9462 (ppm)	112880.1795
11/1/2017 20:16:45	R1710113-004 10X	Mn (257.610 nm)	1.8327 o (ppm)	0.24	1.8327 (ppm)	592960.1198
11/1/2017 20:16:45	R1710113-004 10X	Mo (202.032 nm)	-0.0004 u (ppm)	46.96	-0.0004 (ppm)	12.4845
11/1/2017 20:16:45	R1710113-004 10X	Na (588.995 nm)	10.5651 (ppm)	0.65	10.5651 (ppm)	478821.3735
11/1/2017 20:16:45	R1710113-004 10X	Ni (230.299 nm)	0.0032 (ppm)	25.73	0.0032 (ppm)	-3.6269
11/1/2017 20:16:45	R1710113-004 10X	Pb (220.353 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	8.1793
11/1/2017 20:16:45	R1710113-004 10X	Sb (217.582 nm)	-0.0044 u (ppm)	63.19	-0.0044 (ppm)	-2.2047
11/1/2017 20:16:45	R1710113-004 10X	Se (196.026 nm)	0.0029 (ppm)	80.15	0.0029 (ppm)	8.0797
11/1/2017 20:16:45	R1710113-004 10X	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.4826
11/1/2017 20:16:45	R1710113-004 10X	Sr (216.596 nm)	0.1281 (ppm)	0.20	0.1281 (ppm)	1910.1679
11/1/2017 20:16:45	R1710113-004 10X	Tl (336.122 nm)	0.0582 (ppm)	2.75	0.0582 (ppm)	12346.6240
11/1/2017 20:16:45	R1710113-004 10X	Tl (351.923 nm)	-0.0063 u (ppm)	29.63	-0.0063 (ppm)	-3.2984
11/1/2017 20:16:45	R1710113-004 10X	V (292.401 nm)	0.0102 (ppm)	1.48	0.0102 (ppm)	478.9625
11/1/2017 20:16:45	R1710113-004 10X	Y (360.074 nm)	0.96 (Ratio)	0.90	0.96 (Ratio)	901443.82
11/1/2017 20:16:45	R1710113-004 10X	Y_R (360.074 nm)	0.96 (Ratio)	0.90	0.96 (Ratio)	901740.20
11/1/2017 20:16:45	R1710113-004 10X	Zn (213.857 nm)	0.0350 (ppm)	0.97	0.0350 (ppm)	985.0488
11/1/2017 20:20:05	R1710113-004 2X	Ag (328.068 nm)	0.0002 (ppm)	43.18	0.0002 (ppm)	-107.5637
11/1/2017 20:20:05	R1710113-004 2X	Al (394.401 nm)	115.1566 o (ppm)	0.78	115.1566 (ppm)	1537821.6930
11/1/2017 20:20:05	R1710113-004 2X	As (188.980 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	-1.6387
11/1/2017 20:20:05	R1710113-004 2X	B (249.772 nm)	0.6664 (ppm)	0.59	0.6664 (ppm)	19188.5075

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:20:05	R1710113-004 2X	Ba (230.424 nm)	0.0447 (ppm)	1.62	0.0447 (ppm)	1571.7060
11/1/2017 20:20:05	R1710113-004 2X	Be (313.107 nm)	0.0071 (ppm)	0.79	0.0071 (ppm)	10207.3490
11/1/2017 20:20:05	R1710113-004 2X	Ca (227.547 nm)	210.3061 o (ppm)	0.72	210.3061 (ppm)	12356.9539
11/1/2017 20:20:05	R1710113-004 2X	Cd (214.439 nm)	0.0050 (ppm)	6.86	0.0050 (ppm)	125.7096
11/1/2017 20:20:05	R1710113-004 2X	Co (230.786 nm)	0.0124 (ppm)	1.46	0.0124 (ppm)	126.3297
11/1/2017 20:20:05	R1710113-004 2X	Cr (267.716 nm)	0.0135 (ppm)	0.97	0.0135 (ppm)	700.9982
11/1/2017 20:20:05	R1710113-004 2X	Cu (327.395 nm)	0.0058 (ppm)	2.15	0.0058 (ppm)	388.8514
11/1/2017 20:20:05	R1710113-004 2X	Fe (234.350 nm)	392.5987 o (ppm)	0.45	392.5987 (ppm)	4560928.7168
11/1/2017 20:20:05	R1710113-004 2X	K (766.491 nm)	66.7465 o (ppm)	0.97	66.7465 (ppm)	206141.5848
11/1/2017 20:20:05	R1710113-004 2X	Mg (279.078 nm)	258.7732 o (ppm)	0.38	258.7732 (ppm)	522140.8414
11/1/2017 20:20:05	R1710113-004 2X	Mn (257.610 nm)	7.9735 o (ppm)	0.44	7.9735 (ppm)	2579694.4633
11/1/2017 20:20:05	R1710113-004 2X	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	19.1264
11/1/2017 20:20:05	R1710113-004 2X	Na (588.995 nm)	51.7482 (ppm)	0.91	51.7482 (ppm)	2368580.5907
11/1/2017 20:20:05	R1710113-004 2X	Ni (230.299 nm)	0.0131 (ppm)	11.82	0.0131 (ppm)	64.5790
11/1/2017 20:20:05	R1710113-004 2X	Pb (220.353 nm)	0.0153 (ppm)	12.24	0.0153 (ppm)	39.8384
11/1/2017 20:20:05	R1710113-004 2X	Sb (217.582 nm)	-0.0172 u (ppm)	10.23	-0.0172 (ppm)	-20.3961
11/1/2017 20:20:05	R1710113-004 2X	Se (196.026 nm)	0.0060 (ppm)	47.52	0.0060 (ppm)	10.7799
11/1/2017 20:20:05	R1710113-004 2X	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.4093
11/1/2017 20:20:05	R1710113-004 2X	Sr (216.596 nm)	0.5558 (ppm)	0.63	0.5558 (ppm)	8289.9121
11/1/2017 20:20:05	R1710113-004 2X	Ti (336.122 nm)	0.2205 (ppm)	2.61	0.2205 (ppm)	47932.9118
11/1/2017 20:20:05	R1710113-004 2X	Tl (351.923 nm)	-0.0212 u (ppm)	4.94	-0.0212 (ppm)	-45.6981
11/1/2017 20:20:05	R1710113-004 2X	V (292.401 nm)	0.0466 (ppm)	1.66	0.0466 (ppm)	1787.8884
11/1/2017 20:20:05	R1710113-004 2X	Y (360.074 nm)	0.95 (Ratio)	0.95	0.95 (Ratio)	885704.12
11/1/2017 20:20:05	R1710113-004 2X	Y_R (360.074 nm)	0.95 (Ratio)	0.95	0.95 (Ratio)	886098.76
11/1/2017 20:20:05	R1710113-004 2X	Zn (213.857 nm)	0.1631 (ppm)	0.79	0.1631 (ppm)	4708.6321
11/1/2017 20:23:24	R1710113-005 100X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-123.0947
11/1/2017 20:23:24	R1710113-005 100X	Al (394.401 nm)	1.7623 (ppm)	0.55	1.7623 (ppm)	23615.5516
11/1/2017 20:23:24	R1710113-005 100X	As (188.980 nm)	0.0026 (ppm)	> 100.00	0.0026 (ppm)	-0.4718
11/1/2017 20:23:24	R1710113-005 100X	B (249.772 nm)	0.0144 (ppm)	1.45	0.0144 (ppm)	502.3047
11/1/2017 20:23:24	R1710113-005 100X	Ba (230.424 nm)	0.0004 (ppm)	15.33	0.0004 (ppm)	20.5676
11/1/2017 20:23:24	R1710113-005 100X	Be (313.107 nm)	0.0001 (ppm)	9.09	0.0001 (ppm)	-310.3913
11/1/2017 20:23:24	R1710113-005 100X	Ca (227.547 nm)	4.4741 (ppm)	0.49	4.4741 (ppm)	268.9251
11/1/2017 20:23:24	R1710113-005 100X	Cd (214.439 nm)	0.0002 (ppm)	75.21	0.0002 (ppm)	16.8922
11/1/2017 20:23:24	R1710113-005 100X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.8178
11/1/2017 20:23:24	R1710113-005 100X	Cr (267.716 nm)	0.0002 (ppm)	40.50	0.0002 (ppm)	8.8072
11/1/2017 20:23:24	R1710113-005 100X	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	24.7001
11/1/2017 20:23:24	R1710113-005 100X	Fe (234.350 nm)	11.9459 o (ppm)	0.44	11.9459 (ppm)	138849.6756
11/1/2017 20:23:24	R1710113-005 100X	K (766.491 nm)	1.3695 (ppm)	1.59	1.3695 (ppm)	4285.8691
11/1/2017 20:23:24	R1710113-005 100X	Mg (279.078 nm)	5.7059 (ppm)	0.49	5.7059 (ppm)	11506.1593
11/1/2017 20:23:24	R1710113-005 100X	Mn (257.610 nm)	0.1933 (ppm)	0.37	0.1933 (ppm)	62559.3632
11/1/2017 20:23:24	R1710113-005 100X	Mo (202.032 nm)	-0.0006 u (ppm)	60.62	-0.0006 (ppm)	10.3372
11/1/2017 20:23:24	R1710113-005 100X	Na (588.995 nm)	1.1085 (ppm)	0.78	1.1085 (ppm)	44885.9336
11/1/2017 20:23:24	R1710113-005 100X	Ni (230.299 nm)	0.0006 (ppm)	21.76	0.0006 (ppm)	-21.7776
11/1/2017 20:23:24	R1710113-005 100X	Pb (220.353 nm)	-0.0012 u (ppm)	90.52	-0.0012 (ppm)	2.9170
11/1/2017 20:23:24	R1710113-005 100X	Sb (217.582 nm)	-0.0039 u (ppm)	59.38	-0.0039 (ppm)	-1.3738
11/1/2017 20:23:24	R1710113-005 100X	Se (196.026 nm)	-0.0014 u (ppm)	71.73	-0.0014 (ppm)	4.3283
11/1/2017 20:23:24	R1710113-005 100X	Sn (189.925 nm)	-0.0011 u (ppm)	61.89	-0.0011 (ppm)	-1.5959
11/1/2017 20:23:24	R1710113-005 100X	Sr (216.596 nm)	0.0147 (ppm)	0.76	0.0147 (ppm)	217.9688
11/1/2017 20:23:24	R1710113-005 100X	Ti (336.122 nm)	0.0002 (ppm)	31.98	0.0002 (ppm)	-386.5788
11/1/2017 20:23:24	R1710113-005 100X	Tl (351.923 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	10.5860
11/1/2017 20:23:24	R1710113-005 100X	V (292.401 nm)	0.0006 (ppm)	27.22	0.0006 (ppm)	130.7863

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:23:24	R1710113-005 100X	Y (360.074 nm)	0.99 (Ratio)	0.91	0.99 (Ratio)	926422.57
11/1/2017 20:23:24	R1710113-005 100X	Y_R (360.074 nm)	0.99 (Ratio)	0.90	0.99 (Ratio)	926570.87
11/1/2017 20:23:24	R1710113-005 100X	Zn (213.857 nm)	0.0044 (ppm)	3.20	0.0044 (ppm)	96.8818
11/1/2017 20:26:43	R1710113-005 10X	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-124.0332
11/1/2017 20:26:43	R1710113-005 10X	Al (394.401 nm)	17.8557 (ppm)	0.27	17.8557 (ppm)	238519.1029
11/1/2017 20:26:43	R1710113-005 10X	As (188.980 nm)	0.0022 (ppm)	14.14	0.0022 (ppm)	-0.8524
11/1/2017 20:26:43	R1710113-005 10X	B (249.772 nm)	0.1418 (ppm)	0.72	0.1418 (ppm)	4155.4077
11/1/2017 20:26:43	R1710113-005 10X	Ba (230.424 nm)	0.0034 (ppm)	1.82	0.0034 (ppm)	128.0846
11/1/2017 20:26:43	R1710113-005 10X	Be (313.107 nm)	0.0013 (ppm)	1.07	0.0013 (ppm)	1508.4517
11/1/2017 20:26:43	R1710113-005 10X	Ca (227.547 nm)	43.8825 (ppm)	0.18	43.8825 (ppm)	2583.2879
11/1/2017 20:26:43	R1710113-005 10X	Cd (214.439 nm)	0.0011 (ppm)	18.88	0.0011 (ppm)	38.4547
11/1/2017 20:26:43	R1710113-005 10X	Co (230.786 nm)	0.0027 (ppm)	9.68	0.0027 (ppm)	26.2803
11/1/2017 20:26:43	R1710113-005 10X	Cr (267.716 nm)	0.0013 (ppm)	6.57	0.0013 (ppm)	66.5664
11/1/2017 20:26:43	R1710113-005 10X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	20.4943
11/1/2017 20:26:43	R1710113-005 10X	Fe (234.350 nm)	102.7412 o (ppm)	0.30	102.7412 (ppm)	1193627.2526
11/1/2017 20:26:43	R1710113-005 10X	K (766.491 nm)	13.0886 (ppm)	0.52	13.0886 (ppm)	40469.5255
11/1/2017 20:26:43	R1710113-005 10X	Mg (279.078 nm)	53.8104 (ppm)	0.43	53.8104 (ppm)	108570.6124
11/1/2017 20:26:43	R1710113-005 10X	Mn (257.610 nm)	1.7330 o (ppm)	0.43	1.7330 (ppm)	560708.2033
11/1/2017 20:26:43	R1710113-005 10X	Mo (202.032 nm)	-0.0002 u (ppm)	58.66	-0.0002 (ppm)	14.4059
11/1/2017 20:26:43	R1710113-005 10X	Na (588.995 nm)	10.5343 (ppm)	0.28	10.5343 (ppm)	477406.2896
11/1/2017 20:26:43	R1710113-005 10X	Ni (230.299 nm)	0.0046 (ppm)	13.39	0.0046 (ppm)	5.6713
11/1/2017 20:26:43	R1710113-005 10X	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.7155
11/1/2017 20:26:43	R1710113-005 10X	Sb (217.582 nm)	-0.0037 u (ppm)	83.46	-0.0037 (ppm)	-1.1055
11/1/2017 20:26:43	R1710113-005 10X	Se (196.026 nm)	0.0034 (ppm)	83.20	0.0034 (ppm)	8.5177
11/1/2017 20:26:43	R1710113-005 10X	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.5644
11/1/2017 20:26:43	R1710113-005 10X	Sr (216.596 nm)	0.1341 (ppm)	1.50	0.1341 (ppm)	1998.5999
11/1/2017 20:26:43	R1710113-005 10X	Ti (336.122 nm)	0.0038 (ppm)	5.42	0.0038 (ppm)	416.1636
11/1/2017 20:26:43	R1710113-005 10X	Tl (351.923 nm)	-0.0067 u (ppm)	30.81	-0.0067 (ppm)	-4.4718
11/1/2017 20:26:43	R1710113-005 10X	V (292.401 nm)	0.0071 (ppm)	0.72	0.0071 (ppm)	364.0482
11/1/2017 20:26:43	R1710113-005 10X	Y (360.074 nm)	0.96 (Ratio)	0.84	0.96 (Ratio)	901813.69
11/1/2017 20:26:43	R1710113-005 10X	Y_R (360.074 nm)	0.96 (Ratio)	0.83	0.96 (Ratio)	901952.15
11/1/2017 20:26:43	R1710113-005 10X	Zn (213.857 nm)	0.0229 (ppm)	1.79	0.0229 (ppm)	635.0251
11/1/2017 20:30:02	Continuing Calibration Verification	Ag (328.068 nm)	0.4949 (ppm)	0.40	0.4949 (ppm)	36227.2719
11/1/2017 20:30:02	Continuing Calibration Verification	Al (394.401 nm)	9.6720 (ppm)	0.49	9.6720 (ppm)	129238.1053
11/1/2017 20:30:02	Continuing Calibration Verification	As (188.980 nm)	0.9771 (ppm)	0.81	0.9771 (ppm)	901.4416
11/1/2017 20:30:02	Continuing Calibration Verification	B (249.772 nm)	2.4404 (ppm)	0.34	2.4404 (ppm)	70023.8118
11/1/2017 20:30:02	Continuing Calibration Verification	Ba (230.424 nm)	10.3811 (ppm)	0.48	10.3811 (ppm)	363320.3240
11/1/2017 20:30:02	Continuing Calibration Verification	Be (313.107 nm)	0.2563 (ppm)	0.40	0.2563 (ppm)	388174.4507
11/1/2017 20:30:02	Continuing Calibration Verification	Ca (227.547 nm)	24.5986 (ppm)	1.00	24.5986 (ppm)	1450.7883
11/1/2017 20:30:02	Continuing Calibration Verification	Cd (214.439 nm)	0.5003 (ppm)	0.36	0.5003 (ppm)	11390.0508
11/1/2017 20:30:02	Continuing Calibration Verification	Co (230.786 nm)	2.6106 (ppm)	0.29	2.6106 (ppm)	26867.5325
11/1/2017 20:30:02	Continuing Calibration Verification	Cr (267.716 nm)	0.5075 (ppm)	0.43	0.5075 (ppm)	26469.8734
11/1/2017 20:30:02	Continuing Calibration Verification	Cu (327.395 nm)	1.2246 (ppm)	0.54	1.2246 (ppm)	76937.1452
11/1/2017 20:30:02	Continuing Calibration Verification	Fe (234.350 nm)	4.9071 (ppm)	0.54	4.9071 (ppm)	57078.5302
11/1/2017 20:30:02	Continuing Calibration Verification	K (766.491 nm)	25.1936 (ppm)	0.64	25.1936 (ppm)	77844.5290
11/1/2017 20:30:02	Continuing Calibration Verification	Mg (279.078 nm)	25.1321 (ppm)	0.48	25.1321 (ppm)	50704.1631
11/1/2017 20:30:02	Continuing Calibration Verification	Mn (257.610 nm)	0.7612 (ppm)	0.35	0.7612 (ppm)	246307.5993
11/1/2017 20:30:02	Continuing Calibration Verification	Mo (202.032 nm)	2.4189 (ppm)	0.42	2.4189 (ppm)	25898.7891
11/1/2017 20:30:02	Continuing Calibration Verification	Na (588.995 nm)	25.3834 (ppm)	0.75	25.3834 (ppm)	1158786.0134
11/1/2017 20:30:02	Continuing Calibration Verification	Ni (230.299 nm)	2.0516 (ppm)	0.31	2.0516 (ppm)	14210.4413
11/1/2017 20:30:02	Continuing Calibration Verification	Pb (220.353 nm)	0.5028 (ppm)	0.36	0.5028 (ppm)	1127.9640

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:30:02	Continuing Calibration Verification	Sb (217.582 nm)	4.9458 (ppm)	0.64	4.9458 (ppm)	7059.7507
11/1/2017 20:30:02	Continuing Calibration Verification	Se (196.026 nm)	0.4824 (ppm)	1.31	0.4824 (ppm)	426.8893
11/1/2017 20:30:02	Continuing Calibration Verification	Sn (189.925 nm)	5.0857 (ppm)	0.41	5.0857 (ppm)	6480.1406
11/1/2017 20:30:02	Continuing Calibration Verification	Sr (216.596 nm)	2.5256 (ppm)	0.33	2.5256 (ppm)	37673.7720
11/1/2017 20:30:02	Continuing Calibration Verification	Ti (336.122 nm)	2.5201 (ppm)	0.89	2.5201 (ppm)	552247.6115
11/1/2017 20:30:02	Continuing Calibration Verification	Tl (351.923 nm)	0.9994 (ppm)	0.65	0.9994 (ppm)	2851.8783
11/1/2017 20:30:02	Continuing Calibration Verification	V (292.401 nm)	2.5450 (ppm)	0.35	2.5450 (ppm)	91723.1969
11/1/2017 20:30:02	Continuing Calibration Verification	Y (360.074 nm)	0.95 (Ratio)	0.96	0.95 (Ratio)	889330.15
11/1/2017 20:30:02	Continuing Calibration Verification	Y_R (360.074 nm)	0.95 (Ratio)	0.94	0.95 (Ratio)	889370.48
11/1/2017 20:30:02	Continuing Calibration Verification	Zn (213.857 nm)	1.0074 (ppm)	0.51	1.0074 (ppm)	29238.6695
11/1/2017 20:33:21	Continuing Calibration Blank	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-124.5500
11/1/2017 20:33:21	Continuing Calibration Blank	Al (394.401 nm)	-0.0005 u (ppm)	81.29	-0.0005 (ppm)	77.1854
11/1/2017 20:33:21	Continuing Calibration Blank	As (188.980 nm)	0.0027 (ppm)	40.53	0.0027 (ppm)	-0.3738
11/1/2017 20:33:21	Continuing Calibration Blank	B (249.772 nm)	0.0009 (ppm)	63.16	0.0009 (ppm)	116.3578
11/1/2017 20:33:21	Continuing Calibration Blank	Ba (230.424 nm)	0.0002 (ppm)	52.98	0.0002 (ppm)	13.9000
11/1/2017 20:33:21	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-502.8401
11/1/2017 20:33:21	Continuing Calibration Blank	Ca (227.547 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	6.1811
11/1/2017 20:33:21	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	78.12	0.0001 (ppm)	15.6206
11/1/2017 20:33:21	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.6432
11/1/2017 20:33:21	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	67.84	0.0000 (ppm)	-1.9540
11/1/2017 20:33:21	Continuing Calibration Blank	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	17.7096
11/1/2017 20:33:21	Continuing Calibration Blank	Fe (234.350 nm)	0.0050 (ppm)	8.79	0.0050 (ppm)	130.6481
11/1/2017 20:33:21	Continuing Calibration Blank	K (766.491 nm)	0.0363 (ppm)	31.36	0.0363 (ppm)	169.7110
11/1/2017 20:33:21	Continuing Calibration Blank	Mg (279.078 nm)	0.0016 (ppm)	26.10	0.0016 (ppm)	-3.8342
11/1/2017 20:33:21	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 (ppm)	25.89	0.0000 (ppm)	27.2399
11/1/2017 20:33:21	Continuing Calibration Blank	Mo (202.032 nm)	0.0019 (ppm)	16.70	0.0019 (ppm)	36.8990
11/1/2017 20:33:21	Continuing Calibration Blank	Na (588.995 nm)	0.0038 (ppm)	24.35	0.0038 (ppm)	-5804.5031
11/1/2017 20:33:21	Continuing Calibration Blank	Ni (230.299 nm)	0.0005 (ppm)	53.53	0.0005 (ppm)	-22.8560
11/1/2017 20:33:21	Continuing Calibration Blank	Pb (220.353 nm)	0.0006 (ppm)	58.39	0.0006 (ppm)	7.0048
11/1/2017 20:33:21	Continuing Calibration Blank	Sb (217.582 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	5.1849
11/1/2017 20:33:21	Continuing Calibration Blank	Se (196.026 nm)	0.0013 (ppm)	71.38	0.0013 (ppm)	6.6849
11/1/2017 20:33:21	Continuing Calibration Blank	Sn (189.925 nm)	0.0008 (ppm)	> 100.00	0.0008 (ppm)	0.8223
11/1/2017 20:33:21	Continuing Calibration Blank	Sr (216.596 nm)	-0.0002 u (ppm)	83.55	-0.0002 (ppm)	-4.0889
11/1/2017 20:33:21	Continuing Calibration Blank	Ti (336.122 nm)	0.0006 (ppm)	16.64	0.0006 (ppm)	-277.8975
11/1/2017 20:33:21	Continuing Calibration Blank	Tl (351.923 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	13.7728
11/1/2017 20:33:21	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	108.0471
11/1/2017 20:33:21	Continuing Calibration Blank	Y (360.074 nm)	0.99 (Ratio)	0.93	0.99 (Ratio)	930616.82
11/1/2017 20:33:21	Continuing Calibration Blank	Y_R (360.074 nm)	0.99 (Ratio)	0.93	0.99 (Ratio)	930496.47
11/1/2017 20:33:21	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-31.6072
11/1/2017 20:36:40	R1710113-005 2X	Ag (328.068 nm)	0.0002 (ppm)	72.29	0.0002 (ppm)	-114.4481
11/1/2017 20:36:40	R1710113-005 2X	Al (394.401 nm)	91.7662 o (ppm)	0.37	91.7662 (ppm)	1225478.7453
11/1/2017 20:36:40	R1710113-005 2X	As (188.980 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-3.3292
11/1/2017 20:36:40	R1710113-005 2X	B (249.772 nm)	0.6648 (ppm)	0.29	0.6648 (ppm)	19142.1701
11/1/2017 20:36:40	R1710113-005 2X	Ba (230.424 nm)	0.0152 (ppm)	3.13	0.0152 (ppm)	538.2697
11/1/2017 20:36:40	R1710113-005 2X	Be (313.107 nm)	0.0061 (ppm)	0.16	0.0061 (ppm)	8713.7942
11/1/2017 20:36:40	R1710113-005 2X	Ca (227.547 nm)	221.7882 o (ppm)	0.40	221.7882 (ppm)	13031.2686
11/1/2017 20:36:40	R1710113-005 2X	Cd (214.439 nm)	0.0047 (ppm)	8.50	0.0047 (ppm)	120.2029
11/1/2017 20:36:40	R1710113-005 2X	Co (230.786 nm)	0.0123 (ppm)	17.45	0.0123 (ppm)	125.4831
11/1/2017 20:36:40	R1710113-005 2X	Cr (267.716 nm)	0.0059 (ppm)	0.39	0.0059 (ppm)	305.8370
11/1/2017 20:36:40	R1710113-005 2X	Cu (327.395 nm)	0.0006 (ppm)	23.06	0.0006 (ppm)	58.6021
11/1/2017 20:36:40	R1710113-005 2X	Fe (234.350 nm)	371.4239 o (ppm)	0.20	371.4239 (ppm)	4314939.2036

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:36:40	R1710113-005 2X	K (766.491 nm)	66.1259 o (ppm)	0.38	66.1259 (ppm)	204225.4758
11/1/2017 20:36:40	R1710113-005 2X	Mg (279.078 nm)	250.3402 o (ppm)	0.12	250.3402 (ppm)	505124.9393
11/1/2017 20:36:40	R1710113-005 2X	Mn (257.610 nm)	7.5298 o (ppm)	0.26	7.5298 (ppm)	2436141.4694
11/1/2017 20:36:40	R1710113-005 2X	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	18.0612
11/1/2017 20:36:40	R1710113-005 2X	Na (588.995 nm)	51.5121 (ppm)	0.48	51.5121 (ppm)	2357747.2207
11/1/2017 20:36:40	R1710113-005 2X	Ni (230.299 nm)	0.0199 (ppm)	2.41	0.0199 (ppm)	112.1572
11/1/2017 20:36:40	R1710113-005 2X	Pb (220.353 nm)	0.0040 (ppm)	71.55	0.0040 (ppm)	14.4604
11/1/2017 20:36:40	R1710113-005 2X	Sb (217.582 nm)	-0.0145 u (ppm)	25.88	-0.0145 (ppm)	-16.5619
11/1/2017 20:36:40	R1710113-005 2X	Se (196.026 nm)	0.0102 (ppm)	17.80	0.0102 (ppm)	14.4036
11/1/2017 20:36:40	R1710113-005 2X	Sn (189.925 nm)	0.0015 (ppm)	19.83	0.0015 (ppm)	1.7737
11/1/2017 20:36:40	R1710113-005 2X	Sr (216.596 nm)	0.5919 (ppm)	0.18	0.5919 (ppm)	8827.8760
11/1/2017 20:36:40	R1710113-005 2X	Ti (336.122 nm)	0.0193 (ppm)	4.26	0.0193 (ppm)	3821.0068
11/1/2017 20:36:40	R1710113-005 2X	Tl (351.923 nm)	-0.0190 u (ppm)	13.27	-0.0190 (ppm)	-39.4452
11/1/2017 20:36:40	R1710113-005 2X	V (292.401 nm)	0.0326 (ppm)	0.33	0.0326 (ppm)	1282.5255
11/1/2017 20:36:40	R1710113-005 2X	Y (360.074 nm)	0.94 (Ratio)	0.84	0.94 (Ratio)	878444.91
11/1/2017 20:36:40	R1710113-005 2X	Y_R (360.074 nm)	0.94 (Ratio)	0.83	0.94 (Ratio)	878653.83
11/1/2017 20:36:40	R1710113-005 2X	Zn (213.857 nm)	0.1039 (ppm)	0.70	0.1039 (ppm)	2987.2838
11/1/2017 20:40:00	R1710113-005	Ag (328.068 nm)	0.0001 (ppm)	35.83	0.0001 (ppm)	-119.8379
11/1/2017 20:40:00	R1710113-005	Al (394.401 nm)	179.8496 o (ppm)	0.24	179.8496 (ppm)	2401696.9607
11/1/2017 20:40:00	R1710113-005	As (188.980 nm)	0.0022 u (ppm)	> 100.00	0.0022 (ppm)	-0.8724
11/1/2017 20:40:00	R1710113-005	B (249.772 nm)	1.2307 (ppm)	0.18	1.2307 (ppm)	35359.5925
11/1/2017 20:40:00	R1710113-005	Ba (230.424 nm)	0.0269 (ppm)	1.20	0.0269 (ppm)	951.1261
11/1/2017 20:40:00	R1710113-005	Be (313.107 nm)	0.0111 (ppm)	0.28	0.0111 (ppm)	16391.1678
11/1/2017 20:40:00	R1710113-005	Ca (227.547 nm)	436.0245 o (ppm)	0.31	436.0245 (ppm)	25612.8634
11/1/2017 20:40:00	R1710113-005	Cd (214.439 nm)	0.0091 (ppm)	3.58	0.0091 (ppm)	220.0988
11/1/2017 20:40:00	R1710113-005	Co (230.786 nm)	0.0230 (ppm)	2.63	0.0230 (ppm)	235.4160
11/1/2017 20:40:00	R1710113-005	Cr (267.716 nm)	0.0109 (ppm)	1.79	0.0109 (ppm)	569.1544
11/1/2017 20:40:00	R1710113-005	Cu (327.395 nm)	0.0012 (ppm)	7.64	0.0012 (ppm)	99.3824
11/1/2017 20:40:00	R1710113-005	Fe (234.350 nm)	534.4964 o (ppm)	0.57	534.4964 (ppm)	6209368.3029
11/1/2017 20:40:00	R1710113-005	K (766.491 nm)	128.9014 o (ppm)	0.17	128.9014 (ppm)	398049.0942
11/1/2017 20:40:00	R1710113-005	Mg (279.078 nm)	452.9277 o (ppm)	0.01	452.9277 (ppm)	913902.4846
11/1/2017 20:40:00	R1710113-005	Mn (257.610 nm)	13.3417 o (ppm)	0.07	13.3417 (ppm)	4316483.0878
11/1/2017 20:40:00	R1710113-005	Mo (202.032 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	22.0551
11/1/2017 20:40:00	R1710113-005	Na (588.995 nm)	97.2961 o (ppm)	0.37	97.2961 (ppm)	4458626.9260
11/1/2017 20:40:00	R1710113-005	Ni (230.299 nm)	0.0336 (ppm)	8.73	0.0336 (ppm)	207.4251
11/1/2017 20:40:00	R1710113-005	Pb (220.353 nm)	0.0099 (ppm)	24.37	0.0099 (ppm)	27.7531
11/1/2017 20:40:00	R1710113-005	Sb (217.582 nm)	-0.0301 u (ppm)	8.57	-0.0301 (ppm)	-38.7698
11/1/2017 20:40:00	R1710113-005	Se (196.026 nm)	0.0186 (ppm)	12.09	0.0186 (ppm)	21.8058
11/1/2017 20:40:00	R1710113-005	Sn (189.925 nm)	0.0013 (ppm)	77.68	0.0013 (ppm)	1.4673
11/1/2017 20:40:00	R1710113-005	Sr (216.596 nm)	1.0659 (ppm)	0.16	1.0659 (ppm)	15899.7364
11/1/2017 20:40:00	R1710113-005	Ti (336.122 nm)	0.0330 (ppm)	1.57	0.0330 (ppm)	6818.5613
11/1/2017 20:40:00	R1710113-005	Tl (351.923 nm)	-0.0305 u (ppm)	12.68	-0.0305 (ppm)	-71.9046
11/1/2017 20:40:00	R1710113-005	V (292.401 nm)	0.0608 (ppm)	0.91	0.0608 (ppm)	2298.4885
11/1/2017 20:40:00	R1710113-005	Y (360.074 nm)	0.95 (Ratio)	0.76	0.95 (Ratio)	887203.35
11/1/2017 20:40:00	R1710113-005	Y_R (360.074 nm)	0.95 (Ratio)	0.76	0.95 (Ratio)	887613.91
11/1/2017 20:40:00	R1710113-005	Zn (213.857 nm)	0.1968 (ppm)	0.21	0.1968 (ppm)	5686.8989
11/1/2017 20:43:19	R1710113-006 10X	Ag (328.068 nm)	0.0015 (ppm)	9.27	0.0015 (ppm)	-17.5678
11/1/2017 20:43:19	R1710113-006 10X	Al (394.401 nm)	18.9313 (ppm)	0.56	18.9313 (ppm)	252881.9920
11/1/2017 20:43:19	R1710113-006 10X	As (188.980 nm)	0.0571 (ppm)	3.09	0.0571 (ppm)	49.9954
11/1/2017 20:43:19	R1710113-006 10X	B (249.772 nm)	0.1003 (ppm)	0.77	0.1003 (ppm)	2964.5573
11/1/2017 20:43:19	R1710113-006 10X	Ba (230.424 nm)	0.4610 (ppm)	0.61	0.4610 (ppm)	16142.4879

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:43:19	R1710113-006 10X	Be (313.107 nm)	0.0007 (ppm)	0.64	0.0007 (ppm)	605.0368
11/1/2017 20:43:19	R1710113-006 10X	Ca (227.547 nm)	114.4817 o (ppm)	0.51	114.4817 (ppm)	6729.4100
11/1/2017 20:43:19	R1710113-006 10X	Cd (214.439 nm)	0.0009 (ppm)	20.04	0.0009 (ppm)	32.9237
11/1/2017 20:43:19	R1710113-006 10X	Co (230.786 nm)	0.0050 (ppm)	5.03	0.0050 (ppm)	50.2759
11/1/2017 20:43:19	R1710113-006 10X	Cr (267.716 nm)	0.0415 (ppm)	2.29	0.0415 (ppm)	2161.5017
11/1/2017 20:43:19	R1710113-006 10X	Cu (327.395 nm)	0.1050 (ppm)	0.91	0.1050 (ppm)	6616.4742
11/1/2017 20:43:19	R1710113-006 10X	Fe (234.350 nm)	22.8902 o (ppm)	0.45	22.8902 (ppm)	265990.6785
11/1/2017 20:43:19	R1710113-006 10X	K (766.491 nm)	11.7651 (ppm)	0.76	11.7651 (ppm)	36382.9042
11/1/2017 20:43:19	R1710113-006 10X	Mg (279.078 nm)	22.5487 (ppm)	0.45	22.5487 (ppm)	45491.4239
11/1/2017 20:43:19	R1710113-006 10X	Mn (257.610 nm)	0.3491 (ppm)	0.49	0.3491 (ppm)	112984.6487
11/1/2017 20:43:19	R1710113-006 10X	Mo (202.032 nm)	0.0061 (ppm)	6.86	0.0061 (ppm)	81.8701
11/1/2017 20:43:19	R1710113-006 10X	Na (588.995 nm)	3.8694 (ppm)	0.64	3.8694 (ppm)	171574.3122
11/1/2017 20:43:19	R1710113-006 10X	Ni (230.299 nm)	0.0131 (ppm)	6.69	0.0131 (ppm)	65.1507
11/1/2017 20:43:19	R1710113-006 10X	Pb (220.353 nm)	2.7391 o (ppm)	0.35	2.7391 (ppm)	6119.8576
11/1/2017 20:43:19	R1710113-006 10X	Sb (217.582 nm)	0.0069 (ppm)	60.62	0.0069 (ppm)	13.9605
11/1/2017 20:43:19	R1710113-006 10X	Se (196.026 nm)	0.0017 (ppm)	79.37	0.0017 (ppm)	7.0219
11/1/2017 20:43:19	R1710113-006 10X	Sn (189.925 nm)	0.0271 (ppm)	5.92	0.0271 (ppm)	34.3308
11/1/2017 20:43:19	R1710113-006 10X	Sr (216.596 nm)	0.2890 (ppm)	0.26	0.2890 (ppm)	4310.6115
11/1/2017 20:43:19	R1710113-006 10X	Ti (336.122 nm)	0.7093 (ppm)	0.84	0.7093 (ppm)	155133.3856
11/1/2017 20:43:19	R1710113-006 10X	Tl (351.923 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	10.3234
11/1/2017 20:43:19	R1710113-006 10X	V (292.401 nm)	0.0441 (ppm)	0.65	0.0441 (ppm)	1697.0896
11/1/2017 20:43:19	R1710113-006 10X	Y (360.074 nm)	0.95 (Ratio)	0.94	0.95 (Ratio)	890091.72
11/1/2017 20:43:19	R1710113-006 10X	Y_R (360.074 nm)	0.95 (Ratio)	0.94	0.95 (Ratio)	890227.07
11/1/2017 20:43:19	R1710113-006 10X	Zn (213.857 nm)	0.3082 (ppm)	0.64	0.3082 (ppm)	8924.1928
11/1/2017 20:46:38	R1710113-007 10X	Ag (328.068 nm)	0.0008 (ppm)	6.45	0.0008 (ppm)	-65.6697
11/1/2017 20:46:38	R1710113-007 10X	Al (394.401 nm)	8.2710 (ppm)	0.62	8.2710 (ppm)	110530.1127
11/1/2017 20:46:38	R1710113-007 10X	As (188.980 nm)	0.0321 (ppm)	6.11	0.0321 (ppm)	26.8258
11/1/2017 20:46:38	R1710113-007 10X	B (249.772 nm)	0.0756 (ppm)	0.57	0.0756 (ppm)	2257.9364
11/1/2017 20:46:38	R1710113-007 10X	Ba (230.424 nm)	0.2116 (ppm)	0.42	0.2116 (ppm)	7412.1748
11/1/2017 20:46:38	R1710113-007 10X	Be (313.107 nm)	0.0003 (ppm)	0.32	0.0003 (ppm)	-43.1840
11/1/2017 20:46:38	R1710113-007 10X	Ca (227.547 nm)	91.5640 o (ppm)	0.47	91.5640 (ppm)	5383.5075
11/1/2017 20:46:38	R1710113-007 10X	Cd (214.439 nm)	0.0004 (ppm)	34.17	0.0004 (ppm)	22.6391
11/1/2017 20:46:38	R1710113-007 10X	Co (230.786 nm)	0.0020 (ppm)	14.91	0.0020 (ppm)	19.4866
11/1/2017 20:46:38	R1710113-007 10X	Cr (267.716 nm)	0.0177 (ppm)	2.10	0.0177 (ppm)	922.1399
11/1/2017 20:46:38	R1710113-007 10X	Cu (327.395 nm)	0.0477 (ppm)	0.71	0.0477 (ppm)	3016.6227
11/1/2017 20:46:38	R1710113-007 10X	Fe (234.350 nm)	10.6006 (ppm)	0.56	10.6006 (ppm)	123220.3521
11/1/2017 20:46:38	R1710113-007 10X	K (766.491 nm)	8.4810 (ppm)	0.64	8.4810 (ppm)	26243.0077
11/1/2017 20:46:38	R1710113-007 10X	Mg (279.078 nm)	20.5789 (ppm)	0.57	20.5789 (ppm)	41516.7898
11/1/2017 20:46:38	R1710113-007 10X	Mn (257.610 nm)	0.2024 (ppm)	0.50	0.2024 (ppm)	65513.4184
11/1/2017 20:46:38	R1710113-007 10X	Mo (202.032 nm)	0.0039 (ppm)	6.41	0.0039 (ppm)	58.7379
11/1/2017 20:46:38	R1710113-007 10X	Na (588.995 nm)	3.8678 (ppm)	0.63	3.8678 (ppm)	171503.1704
11/1/2017 20:46:38	R1710113-007 10X	Ni (230.299 nm)	0.0043 (ppm)	15.21	0.0043 (ppm)	3.5036
11/1/2017 20:46:38	R1710113-007 10X	Pb (220.353 nm)	1.2882 o (ppm)	0.56	1.2882 (ppm)	2881.1358
11/1/2017 20:46:38	R1710113-007 10X	Sb (217.582 nm)	0.0050 (ppm)	41.43	0.0050 (ppm)	11.3278
11/1/2017 20:46:38	R1710113-007 10X	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	4.6349
11/1/2017 20:46:38	R1710113-007 10X	Sn (189.925 nm)	0.0118 (ppm)	21.36	0.0118 (ppm)	14.8571
11/1/2017 20:46:38	R1710113-007 10X	Sr (216.596 nm)	0.2212 (ppm)	0.46	0.2212 (ppm)	3298.2409
11/1/2017 20:46:38	R1710113-007 10X	Ti (336.122 nm)	0.3523 (ppm)	0.38	0.3523 (ppm)	76833.4472
11/1/2017 20:46:38	R1710113-007 10X	Tl (351.923 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	12.2222
11/1/2017 20:46:38	R1710113-007 10X	V (292.401 nm)	0.0195 (ppm)	0.74	0.0195 (ppm)	811.2476
11/1/2017 20:46:38	R1710113-007 10X	Y (360.074 nm)	0.95 (Ratio)	1.15	0.95 (Ratio)	890079.74

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:46:38	R1710113-007 10X	Y_R (360.074 nm)	0.95 (Ratio)	1.15	0.95 (Ratio)	890241.56
11/1/2017 20:46:38	R1710113-007 10X	Zn (213.857 nm)	0.1400 (ppm)	0.66	0.1400 (ppm)	4035.9117
11/1/2017 20:49:57	R1710113-007	Ag (328.068 nm)	0.0072 (ppm)	1.70	0.0072 (ppm)	406.2599
11/1/2017 20:49:57	R1710113-007	Al (394.401 nm)	91.8331 o (ppm)	0.58	91.8331 (ppm)	1226372.1938
11/1/2017 20:49:57	R1710113-007	As (188.980 nm)	0.3384 (ppm)	1.06	0.3384 (ppm)	310.3367
11/1/2017 20:49:57	R1710113-007	B (249.772 nm)	0.7968 (ppm)	0.46	0.7968 (ppm)	22924.2141
11/1/2017 20:49:57	R1710113-007	Ba (230.424 nm)	1.9506 (ppm)	0.47	1.9506 (ppm)	68274.0126
11/1/2017 20:49:57	R1710113-007	Be (313.107 nm)	0.0030 (ppm)	0.30	0.0030 (ppm)	4003.0636
11/1/2017 20:49:57	R1710113-007	Ca (227.547 nm)	987.2251 o (ppm)	0.55	987.2251 (ppm)	57983.5806
11/1/2017 20:49:57	R1710113-007	Cd (214.439 nm)	0.0032 (ppm)	15.52	0.0032 (ppm)	85.8538
11/1/2017 20:49:57	R1710113-007	Co (230.786 nm)	0.0229 (ppm)	3.22	0.0229 (ppm)	234.5757
11/1/2017 20:49:57	R1710113-007	Cr (267.716 nm)	0.1603 (ppm)	0.45	0.1603 (ppm)	8359.9791
11/1/2017 20:49:57	R1710113-007	Cu (327.395 nm)	0.5010 (ppm)	0.13	0.5010 (ppm)	31491.3599
11/1/2017 20:49:57	R1710113-007	Fe (234.350 nm)	93.1816 o (ppm)	0.52	93.1816 (ppm)	1082572.6261
11/1/2017 20:49:57	R1710113-007	K (766.491 nm)	93.8843 o (ppm)	0.57	93.8843 (ppm)	289931.4565
11/1/2017 20:49:57	R1710113-007	Mg (279.078 nm)	205.9005 o (ppm)	0.44	205.9005 (ppm)	415455.3805
11/1/2017 20:49:57	R1710113-007	Mn (257.610 nm)	1.8788 o (ppm)	0.40	1.8788 (ppm)	607897.3825
11/1/2017 20:49:57	R1710113-007	Mo (202.032 nm)	0.0410 (ppm)	1.33	0.0410 (ppm)	455.1485
11/1/2017 20:49:57	R1710113-007	Na (588.995 nm)	41.1151 (ppm)	0.83	41.1151 (ppm)	1880662.9363
11/1/2017 20:49:57	R1710113-007	Ni (230.299 nm)	0.0677 (ppm)	2.02	0.0677 (ppm)	443.5560
11/1/2017 20:49:57	R1710113-007	Pb (220.353 nm)	11.8086 o (ppm)	0.40	11.8086 (ppm)	26365.1999
11/1/2017 20:49:57	R1710113-007	Sb (217.582 nm)	0.0430 (ppm)	3.65	0.0430 (ppm)	65.4272
11/1/2017 20:49:57	R1710113-007	Se (196.026 nm)	0.0094 (ppm)	38.40	0.0094 (ppm)	13.7709
11/1/2017 20:49:57	R1710113-007	Sn (189.925 nm)	0.1120 (ppm)	2.29	0.1120 (ppm)	142.5211
11/1/2017 20:49:57	R1710113-007	Sr (216.596 nm)	2.0096 (ppm)	0.19	2.0096 (ppm)	29976.1671
11/1/2017 20:49:57	R1710113-007	Tl (336.122 nm)	3.1354 (ppm)	0.37	3.1354 (ppm)	687179.6162
11/1/2017 20:49:57	R1710113-007	Tl (351.923 nm)	0.0273 (ppm)	11.65	0.0273 (ppm)	92.2687
11/1/2017 20:49:57	R1710113-007	V (292.401 nm)	0.1816 (ppm)	0.39	0.1816 (ppm)	6648.4195
11/1/2017 20:49:57	R1710113-007	Y (360.074 nm)	0.87 (Ratio)	0.49	0.87 (Ratio)	812157.63
11/1/2017 20:49:57	R1710113-007	Y_R (360.074 nm)	0.87 (Ratio)	0.50	0.87 (Ratio)	812620.57
11/1/2017 20:49:57	R1710113-007	Zn (213.857 nm)	1.3951 (ppm)	0.56	1.3951 (ppm)	40504.9592
11/1/2017 20:53:16	R1710200-001 10X	Ag (328.068 nm)	0.0001 (ppm)	52.79	0.0001 (ppm)	-121.2823
11/1/2017 20:53:16	R1710200-001 10X	Al (394.401 nm)	0.0092 (ppm)	10.35	0.0092 (ppm)	205.5059
11/1/2017 20:53:16	R1710200-001 10X	As (188.980 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-1.9770
11/1/2017 20:53:16	R1710200-001 10X	B (249.772 nm)	0.1064 (ppm)	0.82	0.1064 (ppm)	3139.7966
11/1/2017 20:53:16	R1710200-001 10X	Ba (230.424 nm)	0.0236 (ppm)	0.68	0.0236 (ppm)	834.7570
11/1/2017 20:53:16	R1710200-001 10X	Be (313.107 nm)	0.0000 (ppm)	30.47	0.0000 (ppm)	-534.8221
11/1/2017 20:53:16	R1710200-001 10X	Ca (227.547 nm)	10.0445 (ppm)	1.31	10.0445 (ppm)	596.0617
11/1/2017 20:53:16	R1710200-001 10X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.5831
11/1/2017 20:53:16	R1710200-001 10X	Co (230.786 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-0.7854
11/1/2017 20:53:16	R1710200-001 10X	Cr (267.716 nm)	0.0001 (ppm)	90.08	0.0001 (ppm)	2.9885
11/1/2017 20:53:16	R1710200-001 10X	Cu (327.395 nm)	0.0004 (ppm)	38.47	0.0004 (ppm)	43.9681
11/1/2017 20:53:16	R1710200-001 10X	Fe (234.350 nm)	0.3262 (ppm)	1.02	0.3262 (ppm)	3861.9726
11/1/2017 20:53:16	R1710200-001 10X	K (766.491 nm)	14.0356 (ppm)	0.87	14.0356 (ppm)	43393.4457
11/1/2017 20:53:16	R1710200-001 10X	Mg (279.078 nm)	3.8284 (ppm)	0.55	3.8284 (ppm)	7717.9291
11/1/2017 20:53:16	R1710200-001 10X	Mn (257.610 nm)	0.0809 (ppm)	0.59	0.0809 (ppm)	26203.1894
11/1/2017 20:53:16	R1710200-001 10X	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	18.9741
11/1/2017 20:53:16	R1710200-001 10X	Na (588.995 nm)	51.7340 (ppm)	0.87	51.7340 (ppm)	2367928.3185
11/1/2017 20:53:16	R1710200-001 10X	Ni (230.299 nm)	0.0010 (ppm)	26.98	0.0010 (ppm)	-18.7701
11/1/2017 20:53:16	R1710200-001 10X	Pb (220.353 nm)	-0.0009 u (ppm)	54.21	-0.0009 (ppm)	3.7248
11/1/2017 20:53:16	R1710200-001 10X	Sb (217.582 nm)	-0.0024 u (ppm)	55.17	-0.0024 (ppm)	0.7574

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:53:16	R1710200-001 10X	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	4.6452
11/1/2017 20:53:16	R1710200-001 10X	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.6891
11/1/2017 20:53:16	R1710200-001 10X	Sr (216.596 nm)	0.0439 (ppm)	0.87	0.0439 (ppm)	653.0544
11/1/2017 20:53:16	R1710200-001 10X	Ti (336.122 nm)	0.0014 (ppm)	4.62	0.0014 (ppm)	-115.6919
11/1/2017 20:53:16	R1710200-001 10X	Tl (351.923 nm)	-0.0038 u (ppm)	58.76	-0.0038 (ppm)	3.7239
11/1/2017 20:53:16	R1710200-001 10X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	109.8895
11/1/2017 20:53:16	R1710200-001 10X	Y (360.074 nm)	0.96 (Ratio)	0.88	0.96 (Ratio)	894725.82
11/1/2017 20:53:16	R1710200-001 10X	Y_R (360.074 nm)	0.96 (Ratio)	0.88	0.96 (Ratio)	895084.76
11/1/2017 20:53:16	R1710200-001 10X	Zn (213.857 nm)	0.0011 (ppm)	0.61	0.0011 (ppm)	1.5693
11/1/2017 20:56:35	R1710200-001	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-128.1348
11/1/2017 20:56:35	R1710200-001	Al (394.401 nm)	0.0326 (ppm)	0.95	0.0326 (ppm)	519.1238
11/1/2017 20:56:35	R1710200-001	As (188.980 nm)	0.0052 (ppm)	19.79	0.0052 (ppm)	1.8892
11/1/2017 20:56:35	R1710200-001	B (249.772 nm)	1.1656 (ppm)	0.48	1.1656 (ppm)	33494.3820
11/1/2017 20:56:35	R1710200-001	Ba (230.424 nm)	0.2296 (ppm)	0.36	0.2296 (ppm)	8042.8762
11/1/2017 20:56:35	R1710200-001	Be (313.107 nm)	0.0000 (ppm)	5.38	0.0000 (ppm)	-574.8616
11/1/2017 20:56:35	R1710200-001	Ca (227.547 nm)	112.5964 o (ppm)	0.70	112.5964 (ppm)	6618.6928
11/1/2017 20:56:35	R1710200-001	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	14.7363
11/1/2017 20:56:35	R1710200-001	Co (230.786 nm)	0.0030 (ppm)	24.97	0.0030 (ppm)	29.9901
11/1/2017 20:56:35	R1710200-001	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.2783
11/1/2017 20:56:35	R1710200-001	Cu (327.395 nm)	0.0036 (ppm)	2.64	0.0036 (ppm)	244.7799
11/1/2017 20:56:35	R1710200-001	Fe (234.350 nm)	3.0852 (ppm)	0.42	3.0852 (ppm)	35913.5267
11/1/2017 20:56:35	R1710200-001	K (766.491 nm)	156.3503 o (ppm)	0.71	156.3503 (ppm)	482799.1911
11/1/2017 20:56:35	R1710200-001	Mg (279.078 nm)	38.4311 (ppm)	0.47	38.4311 (ppm)	77538.6583
11/1/2017 20:56:35	R1710200-001	Mn (257.610 nm)	0.7770 (ppm)	0.50	0.7770 (ppm)	251429.8537
11/1/2017 20:56:35	R1710200-001	Mo (202.032 nm)	0.0057 (ppm)	5.97	0.0057 (ppm)	77.5910
11/1/2017 20:56:35	R1710200-001	Na (588.995 nm)	468.3280 o (ppm)	0.96	468.3280 (ppm)	21484092.8726
11/1/2017 20:56:35	R1710200-001	Ni (230.299 nm)	0.0120 (ppm)	9.74	0.0120 (ppm)	57.1851
11/1/2017 20:56:35	R1710200-001	Pb (220.353 nm)	-0.0024 u (ppm)	10.69	-0.0024 (ppm)	0.2112
11/1/2017 20:56:35	R1710200-001	Sb (217.582 nm)	-0.0035 u (ppm)	82.16	-0.0035 (ppm)	-0.8668
11/1/2017 20:56:35	R1710200-001	Se (196.026 nm)	-0.0037 u (ppm)	65.11	-0.0037 (ppm)	2.2575
11/1/2017 20:56:35	R1710200-001	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.1836
11/1/2017 20:56:35	R1710200-001	Sr (216.596 nm)	0.4253 (ppm)	0.47	0.4253 (ppm)	6342.9495
11/1/2017 20:56:35	R1710200-001	Ti (336.122 nm)	0.0015 (ppm)	5.94	0.0015 (ppm)	-86.4210
11/1/2017 20:56:35	R1710200-001	Tl (351.923 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	13.9580
11/1/2017 20:56:35	R1710200-001	V (292.401 nm)	0.0012 (ppm)	10.05	0.0012 (ppm)	154.2095
11/1/2017 20:56:35	R1710200-001	Y (360.074 nm)	0.87 (Ratio)	0.88	0.87 (Ratio)	813258.76
11/1/2017 20:56:35	R1710200-001	Y_R (360.074 nm)	0.87 (Ratio)	0.88	0.87 (Ratio)	813780.23
11/1/2017 20:56:35	R1710200-001	Zn (213.857 nm)	0.0064 (ppm)	0.50	0.0064 (ppm)	154.0651
11/1/2017 20:59:54	R1710200-002 -003	Ag (328.068 nm)	0.0001 (ppm)	55.36	0.0001 (ppm)	-118.4153
11/1/2017 20:59:54	R1710200-002	Al (394.401 nm)	0.0672 (ppm)	1.01	0.0672 (ppm)	981.1815
11/1/2017 20:59:54	R1710200-002	As (188.980 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-2.5578
11/1/2017 20:59:54	R1710200-002	B (249.772 nm)	0.0257 (ppm)	2.06	0.0257 (ppm)	827.7606
11/1/2017 20:59:54	R1710200-002	Ba (230.424 nm)	0.0352 (ppm)	0.71	0.0352 (ppm)	1238.1881
11/1/2017 20:59:54	R1710200-002	Be (313.107 nm)	0.0000 (ppm)	12.03	0.0000 (ppm)	-526.1103
11/1/2017 20:59:54	R1710200-002	Ca (227.547 nm)	115.1431 o (ppm)	0.69	115.1431 (ppm)	6768.2506
11/1/2017 20:59:54	R1710200-002	Cd (214.439 nm)	0.0000 u (ppm)	99.05	0.0000 (ppm)	11.4488
11/1/2017 20:59:54	R1710200-002	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.1546
11/1/2017 20:59:54	R1710200-002	Cr (267.716 nm)	0.0003 (ppm)	62.71	0.0003 (ppm)	16.4305
11/1/2017 20:59:54	R1710200-002	Cu (327.395 nm)	0.0053 (ppm)	2.19	0.0053 (ppm)	353.1979
11/1/2017 20:59:54	R1710200-002	Fe (234.350 nm)	0.0603 (ppm)	0.80	0.0603 (ppm)	773.5564
11/1/2017 20:59:54	R1710200-002	K (766.491 nm)	4.4736 (ppm)	1.16	4.4736 (ppm)	13869.9321

typo CRL 11/2/17

typo CK 11/2/17

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 20:59:54	R1710200-002 -003	Mg (279.078 nm)	16.8365 (ppm)	0.32	16.8365 (ppm)	33965.3365
11/1/2017 20:59:54	R1710200-002	Mn (257.610 nm)	0.0058 (ppm)	0.37	0.0058 (ppm)	1894.8088
11/1/2017 20:59:54	R1710200-002	Mo (202.032 nm)	-0.0004 u (ppm)	20.28	-0.0004 (ppm)	12.5113
11/1/2017 20:59:54	R1710200-002	Na (588.995 nm)	3.8292 (ppm)	0.99	3.8292 (ppm)	169731.1102
11/1/2017 20:59:54	R1710200-002	Ni (230.299 nm)	-0.0025 u (ppm)	20.82	-0.0025 (ppm)	-43.5373
11/1/2017 20:59:54	R1710200-002	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.5428
11/1/2017 20:59:54	R1710200-002	Sb (217.582 nm)	-0.0027 u (ppm)	59.02	-0.0027 (ppm)	0.2828
11/1/2017 20:59:54	R1710200-002	Se (196.026 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	4.0764
11/1/2017 20:59:54	R1710200-002	Sn (189.925 nm)	-0.0016 u (ppm)	66.75	-0.0016 (ppm)	-2.1466
11/1/2017 20:59:54	R1710200-002	Sr (216.596 nm)	0.7609 (ppm)	0.46	0.7609 (ppm)	11349.4961
11/1/2017 20:59:54	R1710200-002	Ti (336.122 nm)	0.0024 (ppm)	4.64	0.0024 (ppm)	104.3993
11/1/2017 20:59:54	R1710200-002	Tl (351.923 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	9.4567
11/1/2017 20:59:54	R1710200-002	V (292.401 nm)	0.0003 (ppm)	50.09	0.0003 (ppm)	119.9114
11/1/2017 20:59:54	R1710200-002	Y (360.074 nm)	0.95 (Ratio)	0.80	0.95 (Ratio)	894054.33
11/1/2017 20:59:54	R1710200-002	Y_R (360.074 nm)	0.96 (Ratio)	0.80	0.96 (Ratio)	894420.52
11/1/2017 20:59:54	R1710200-002	Zn (213.857 nm)	0.0083 (ppm)	1.59	0.0083 (ppm)	211.8510
11/1/2017 21:03:13	R1710054-013	Ag (328.068 nm)	0.0002 (ppm)	72.29	0.0002 (ppm)	-114.2421
11/1/2017 21:03:13	R1710054-013	Al (394.401 nm)	0.2247 (ppm)	0.62	0.2247 (ppm)	3083.9102
11/1/2017 21:03:13	R1710054-013	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.1939
11/1/2017 21:03:13	R1710054-013	B (249.772 nm)	0.0522 (ppm)	0.36	0.0522 (ppm)	1586.3079
11/1/2017 21:03:13	R1710054-013	Ba (230.424 nm)	0.2090 (ppm)	0.40	0.2090 (ppm)	7323.8623
11/1/2017 21:03:13	R1710054-013	Be (313.107 nm)	0.0000 (ppm)	71.76	0.0000 (ppm)	-521.8905
11/1/2017 21:03:13	R1710054-013	Ca (227.547 nm)	183.2981 o (ppm)	0.52	183.2981 (ppm)	10770.8335
11/1/2017 21:03:13	R1710054-013	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.7714
11/1/2017 21:03:13	R1710054-013	Co (230.786 nm)	0.0045 (ppm)	12.69	0.0045 (ppm)	45.1386
11/1/2017 21:03:13	R1710054-013	Cr (267.716 nm)	-0.0002 u (ppm)	54.83	-0.0002 (ppm)	-12.5300
11/1/2017 21:03:13	R1710054-013	Cu (327.395 nm)	0.0021 (ppm)	5.15	0.0021 (ppm)	153.1349
11/1/2017 21:03:13	R1710054-013	Fe (234.350 nm)	0.2590 (ppm)	0.64	0.2590 (ppm)	3081.5869
11/1/2017 21:03:13	R1710054-013	K (766.491 nm)	5.0669 (ppm)	0.71	5.0669 (ppm)	15701.9472
11/1/2017 21:03:13	R1710054-013	Mg (279.078 nm)	28.8627 (ppm)	0.42	28.8627 (ppm)	58231.6928
11/1/2017 21:03:13	R1710054-013	Mn (257.610 nm)	0.8143 (ppm)	0.38	0.8143 (ppm)	263497.4357
11/1/2017 21:03:13	R1710054-013	Mo (202.032 nm)	-0.0005 u (ppm)	64.34	-0.0005 (ppm)	11.0710
11/1/2017 21:03:13	R1710054-013	Na (588.995 nm)	44.2872 (ppm)	0.64	44.2872 (ppm)	2026219.2393
11/1/2017 21:03:13	R1710054-013	Ni (230.299 nm)	0.0066 (ppm)	9.43	0.0066 (ppm)	19.7717
11/1/2017 21:03:13	R1710054-013	Pb (220.353 nm)	-0.0022 u (ppm)	81.73	-0.0022 (ppm)	0.8131
11/1/2017 21:03:13	R1710054-013	Sb (217.582 nm)	-0.0029 u (ppm)	25.23	-0.0029 (ppm)	-0.0267
11/1/2017 21:03:13	R1710054-013	Se (196.026 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	4.0740
11/1/2017 21:03:13	R1710054-013	Sn (189.925 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-1.8747
11/1/2017 21:03:13	R1710054-013	Sr (216.596 nm)	9.7570 o (ppm)	0.48	9.7570 (ppm)	145546.8811
11/1/2017 21:03:13	R1710054-013	Ti (336.122 nm)	0.0049 (ppm)	2.62	0.0049 (ppm)	650.3047
11/1/2017 21:03:13	R1710054-013	Tl (351.923 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	12.9082
11/1/2017 21:03:13	R1710054-013	V (292.401 nm)	0.0005 (ppm)	11.73	0.0005 (ppm)	127.1353
11/1/2017 21:03:13	R1710054-013	Y (360.074 nm)	0.93 (Ratio)	0.74	0.93 (Ratio)	869044.29
11/1/2017 21:03:13	R1710054-013	Y_R (360.074 nm)	0.93 (Ratio)	0.74	0.93 (Ratio)	869535.33
11/1/2017 21:03:13	R1710054-013	Zn (213.857 nm)	0.0044 (ppm)	2.83	0.0044 (ppm)	96.2499
11/1/2017 21:06:32	Continuing Calibration Verification	Ag (328.068 nm)	0.4943 (ppm)	0.46	0.4943 (ppm)	36189.3698
11/1/2017 21:06:32	Continuing Calibration Verification	Al (394.401 nm)	9.6594 (ppm)	0.63	9.6594 (ppm)	129069.5745
11/1/2017 21:06:32	Continuing Calibration Verification	As (188.980 nm)	0.9768 (ppm)	0.67	0.9768 (ppm)	901.1295
11/1/2017 21:06:32	Continuing Calibration Verification	B (249.772 nm)	2.4326 (ppm)	0.41	2.4326 (ppm)	69801.5208
11/1/2017 21:06:32	Continuing Calibration Verification	Ba (230.424 nm)	10.3818 (ppm)	0.48	10.3818 (ppm)	363343.7612
11/1/2017 21:06:32	Continuing Calibration Verification	Be (313.107 nm)	0.2559 (ppm)	0.18	0.2559 (ppm)	387614.1686

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:06:32	Continuing Calibration Verification	Ca (227.547 nm)	24.5453 (ppm)	0.76	24.5453 (ppm)	1447.6573
11/1/2017 21:06:32	Continuing Calibration Verification	Cd (214.439 nm)	0.5014 (ppm)	0.35	0.5014 (ppm)	11414.5940
11/1/2017 21:06:32	Continuing Calibration Verification	Co (230.786 nm)	2.6112 (ppm)	0.48	2.6112 (ppm)	26873.0683
11/1/2017 21:06:32	Continuing Calibration Verification	Cr (267.716 nm)	0.5090 (ppm)	0.48	0.5090 (ppm)	26548.2170
11/1/2017 21:06:32	Continuing Calibration Verification	Cu (327.395 nm)	1.2230 (ppm)	0.40	1.2230 (ppm)	76834.5336
11/1/2017 21:06:32	Continuing Calibration Verification	Fe (234.350 nm)	4.8984 (ppm)	0.40	4.8984 (ppm)	56978.1462
11/1/2017 21:06:32	Continuing Calibration Verification	K (766.491 nm)	25.0111 (ppm)	0.78	25.0111 (ppm)	77280.8918
11/1/2017 21:06:32	Continuing Calibration Verification	Mg (279.078 nm)	25.1834 (ppm)	0.47	25.1834 (ppm)	50807.5323
11/1/2017 21:06:32	Continuing Calibration Verification	Mn (257.610 nm)	0.7607 (ppm)	0.35	0.7607 (ppm)	246132.8560
11/1/2017 21:06:32	Continuing Calibration Verification	Mo (202.032 nm)	2.4191 (ppm)	0.32	2.4191 (ppm)	25900.4758
11/1/2017 21:06:32	Continuing Calibration Verification	Na (588.995 nm)	25.1799 (ppm)	0.78	25.1799 (ppm)	1149445.1221
11/1/2017 21:06:32	Continuing Calibration Verification	Ni (230.299 nm)	2.0515 (ppm)	0.33	2.0515 (ppm)	14209.9637
11/1/2017 21:06:32	Continuing Calibration Verification	Pb (220.353 nm)	0.5001 (ppm)	0.30	0.5001 (ppm)	1122.0169
11/1/2017 21:06:32	Continuing Calibration Verification	Sb (217.582 nm)	4.9323 (ppm)	0.78	4.9323 (ppm)	7040.4781
11/1/2017 21:06:32	Continuing Calibration Verification	Se (196.026 nm)	0.4837 (ppm)	0.90	0.4837 (ppm)	428.0402
11/1/2017 21:06:32	Continuing Calibration Verification	Sn (189.925 nm)	5.0836 (ppm)	0.37	5.0836 (ppm)	6477.4853
11/1/2017 21:06:32	Continuing Calibration Verification	Sr (216.596 nm)	2.5309 (ppm)	0.38	2.5309 (ppm)	37752.4087
11/1/2017 21:06:32	Continuing Calibration Verification	Ti (336.122 nm)	2.5146 (ppm)	0.44	2.5146 (ppm)	551030.1742
11/1/2017 21:06:32	Continuing Calibration Verification	Tl (351.923 nm)	0.9996 (ppm)	0.78	0.9996 (ppm)	2852.4596
11/1/2017 21:06:32	Continuing Calibration Verification	V (292.401 nm)	2.5468 (ppm)	0.47	2.5468 (ppm)	91786.2161
11/1/2017 21:06:32	Continuing Calibration Verification	Y (360.074 nm)	0.95 (Ratio)	0.88	0.95 (Ratio)	887917.69
11/1/2017 21:06:32	Continuing Calibration Verification	Y_R (360.074 nm)	0.95 (Ratio)	0.87	0.95 (Ratio)	888382.10
11/1/2017 21:06:32	Continuing Calibration Verification	Zn (213.857 nm)	1.0074 (ppm)	0.48	1.0074 (ppm)	29237.9060
11/1/2017 21:09:52	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-120.0767
11/1/2017 21:09:52	Continuing Calibration Blank	Al (394.401 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	87.0601
11/1/2017 21:09:52	Continuing Calibration Blank	As (188.980 nm)	0.0018 (ppm)	65.49	0.0018 (ppm)	-1.2209
11/1/2017 21:09:52	Continuing Calibration Blank	B (249.772 nm)	0.0011 (ppm)	67.23	0.0011 (ppm)	123.5222
11/1/2017 21:09:52	Continuing Calibration Blank	Ba (230.424 nm)	0.0004 (ppm)	29.01	0.0004 (ppm)	21.7861
11/1/2017 21:09:52	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	94.55	0.0000 (ppm)	-495.4066
11/1/2017 21:09:52	Continuing Calibration Blank	Ca (227.547 nm)	-0.0349 u (ppm)	> 100.00	-0.0349 (ppm)	4.1197
11/1/2017 21:09:52	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	44.40	0.0002 (ppm)	16.4470
11/1/2017 21:09:52	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.1734
11/1/2017 21:09:52	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-0.6060
11/1/2017 21:09:52	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	19.8906
11/1/2017 21:09:52	Continuing Calibration Blank	Fe (234.350 nm)	0.0046 (ppm)	5.40	0.0046 (ppm)	126.1661
11/1/2017 21:09:52	Continuing Calibration Blank	K (766.491 nm)	0.0479 (ppm)	16.89	0.0479 (ppm)	205.3369
11/1/2017 21:09:52	Continuing Calibration Blank	Mg (279.078 nm)	0.0018 (ppm)	49.39	0.0018 (ppm)	-3.4419
11/1/2017 21:09:52	Continuing Calibration Blank	Mn (257.610 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	32.4631
11/1/2017 21:09:52	Continuing Calibration Blank	Mo (202.032 nm)	0.0021 (ppm)	7.11	0.0021 (ppm)	38.9646
11/1/2017 21:09:52	Continuing Calibration Blank	Na (588.995 nm)	0.0039 (ppm)	12.39	0.0039 (ppm)	-5797.5979
11/1/2017 21:09:52	Continuing Calibration Blank	Ni (230.299 nm)	0.0007 (ppm)	44.90	0.0007 (ppm)	-21.4622
11/1/2017 21:09:52	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.2888
11/1/2017 21:09:52	Continuing Calibration Blank	Sb (217.582 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	1.7671
11/1/2017 21:09:52	Continuing Calibration Blank	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	5.0624
11/1/2017 21:09:52	Continuing Calibration Blank	Sn (189.925 nm)	0.0008 (ppm)	55.65	0.0008 (ppm)	0.9026
11/1/2017 21:09:52	Continuing Calibration Blank	Sr (216.596 nm)	0.0003 (ppm)	89.00	0.0003 (ppm)	2.9279
11/1/2017 21:09:52	Continuing Calibration Blank	Ti (336.122 nm)	0.0008 (ppm)	0.74	0.0008 (ppm)	-247.0011
11/1/2017 21:09:52	Continuing Calibration Blank	Tl (351.923 nm)	-0.0028 u (ppm)	82.39	-0.0028 (ppm)	6.6875
11/1/2017 21:09:52	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u (ppm)	70.14	-0.0001 (ppm)	106.6731
11/1/2017 21:09:52	Continuing Calibration Blank	Y (360.074 nm)	0.99 (Ratio)	0.83	0.99 (Ratio)	930833.30
11/1/2017 21:09:52	Continuing Calibration Blank	Y_R (360.074 nm)	0.99 (Ratio)	0.83	0.99 (Ratio)	931080.28

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:09:52	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-30.6204
11/1/2017 21:13:11	Contract Required Detection Limit	Ag (328.068 nm)	0.0097 (ppm)	0.34	0.0097 (ppm)	586.6918
11/1/2017 21:13:11	Contract Required Detection Limit	Al (394.401 nm)	0.1756 (ppm)	0.50	0.1756 (ppm)	2428.5570
11/1/2017 21:13:11	Contract Required Detection Limit	As (188.980 nm)	0.0216 (ppm)	3.83	0.0216 (ppm)	17.0745
11/1/2017 21:13:11	Contract Required Detection Limit	B (249.772 nm)	0.1889 (ppm)	0.31	0.1889 (ppm)	5502.8201
11/1/2017 21:13:11	Contract Required Detection Limit	Ba (230.424 nm)	0.2122 (ppm)	0.50	0.2122 (ppm)	7432.8315
11/1/2017 21:13:11	Contract Required Detection Limit	Be (313.107 nm)	0.0049 (ppm)	0.34	0.0049 (ppm)	6879.6161
11/1/2017 21:13:11	Contract Required Detection Limit	Ca (227.547 nm)	1.0076 (ppm)	6.36	1.0076 (ppm)	65.3420
11/1/2017 21:13:11	Contract Required Detection Limit	Cd (214.439 nm)	0.0103 (ppm)	0.76	0.0103 (ppm)	246.2036
11/1/2017 21:13:11	Contract Required Detection Limit	Co (230.786 nm)	0.0510 (ppm)	2.15	0.0510 (ppm)	523.3232
11/1/2017 21:13:11	Contract Required Detection Limit	Cr (267.716 nm)	0.0102 (ppm)	0.37	0.0102 (ppm)	529.0179
11/1/2017 21:13:11	Contract Required Detection Limit	Cu (327.395 nm)	0.0246 (ppm)	0.87	0.0246 (ppm)	1568.2461
11/1/2017 21:13:11	Contract Required Detection Limit	Fe (234.350 nm)	0.0976 (ppm)	0.08	0.0976 (ppm)	1206.9322
11/1/2017 21:13:11	Contract Required Detection Limit	K (766.491 nm)	0.9566 (ppm)	1.33	0.9566 (ppm)	3011.1010
11/1/2017 21:13:11	Contract Required Detection Limit	Mg (279.078 nm)	1.0007 (ppm)	0.15	1.0007 (ppm)	2012.1287
11/1/2017 21:13:11	Contract Required Detection Limit	Mn (257.610 nm)	0.0154 (ppm)	0.55	0.0154 (ppm)	5007.4906
11/1/2017 21:13:11	Contract Required Detection Limit	Mo (202.032 nm)	0.0248 (ppm)	0.92	0.0248 (ppm)	281.9739
11/1/2017 21:13:11	Contract Required Detection Limit	Na (588.995 nm)	1.0241 (ppm)	0.60	1.0241 (ppm)	41013.7181
11/1/2017 21:13:11	Contract Required Detection Limit	Ni (230.299 nm)	0.0412 (ppm)	1.05	0.0412 (ppm)	259.8335
11/1/2017 21:13:11	Contract Required Detection Limit	Pb (220.353 nm)	0.0095 (ppm)	11.35	0.0095 (ppm)	26.8505
11/1/2017 21:13:11	Contract Required Detection Limit	Sb (217.582 nm)	0.0550 (ppm)	2.94	0.0550 (ppm)	82.6225
11/1/2017 21:13:11	Contract Required Detection Limit	Se (196.026 nm)	0.0094 (ppm)	16.25	0.0094 (ppm)	13.7279
11/1/2017 21:13:11	Contract Required Detection Limit	Sn (189.925 nm)	0.5086 (ppm)	0.73	0.5086 (ppm)	647.9363
11/1/2017 21:13:11	Contract Required Detection Limit	Sr (216.596 nm)	0.1024 (ppm)	0.86	0.1024 (ppm)	1526.0110
11/1/2017 21:13:11	Contract Required Detection Limit	Ti (336.122 nm)	0.0510 (ppm)	0.49	0.0510 (ppm)	10754.6838
11/1/2017 21:13:11	Contract Required Detection Limit	Tl (351.923 nm)	0.0161 (ppm)	4.60	0.0161 (ppm)	60.4142
11/1/2017 21:13:11	Contract Required Detection Limit	V (292.401 nm)	0.0498 (ppm)	0.48	0.0498 (ppm)	1902.2695
11/1/2017 21:13:11	Contract Required Detection Limit	Y (360.074 nm)	0.99 (Ratio)	0.80	0.99 (Ratio)	931194.72
11/1/2017 21:13:11	Contract Required Detection Limit	Y_R (360.074 nm)	1.00 (Ratio)	0.81	1.00 (Ratio)	931517.10
11/1/2017 21:13:11	Contract Required Detection Limit	Zn (213.857 nm)	0.0192 (ppm)	0.79	0.0192 (ppm)	528.0747
11/1/2017 21:16:30	Interference Check Solution A	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-116.0845
11/1/2017 21:16:30	Interference Check Solution A	Al (394.401 nm)	267.3465 o (ppm)	0.56	267.3465 (ppm)	3570083.2251
11/1/2017 21:16:30	Interference Check Solution A	As (188.980 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-2.5770
11/1/2017 21:16:30	Interference Check Solution A	B (249.772 nm)	0.0380 (ppm)	0.41	0.0380 (ppm)	1179.0755
11/1/2017 21:16:30	Interference Check Solution A	Ba (230.424 nm)	0.0003 (ppm)	28.69	0.0003 (ppm)	19.5863
11/1/2017 21:16:30	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	4.38	-0.0001 (ppm)	-594.2393
11/1/2017 21:16:30	Interference Check Solution A	Ca (227.547 nm)	271.8127 o (ppm)	0.63	271.8127 (ppm)	15969.0922
11/1/2017 21:16:30	Interference Check Solution A	Cd (214.439 nm)	-0.0010 u (ppm)	10.69	-0.0010 (ppm)	-9.8237
11/1/2017 21:16:30	Interference Check Solution A	Co (230.786 nm)	-0.0018 u (ppm)	13.65	-0.0018 (ppm)	-20.2251
11/1/2017 21:16:30	Interference Check Solution A	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.3435
11/1/2017 21:16:30	Interference Check Solution A	Cu (327.395 nm)	0.0005 (ppm)	12.12	0.0005 (ppm)	52.4983
11/1/2017 21:16:30	Interference Check Solution A	Fe (234.350 nm)	89.8320 o (ppm)	0.42	89.8320 (ppm)	1043659.4755
11/1/2017 21:16:30	Interference Check Solution A	K (766.491 nm)	0.0396 (ppm)	9.36	0.0396 (ppm)	179.9140
11/1/2017 21:16:30	Interference Check Solution A	Mg (279.078 nm)	265.8091 o (ppm)	0.71	265.8091 (ppm)	536337.8925
11/1/2017 21:16:30	Interference Check Solution A	Mn (257.610 nm)	0.0016 (ppm)	0.22	0.0016 (ppm)	536.7602
11/1/2017 21:16:30	Interference Check Solution A	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	17.1009
11/1/2017 21:16:30	Interference Check Solution A	Na (588.995 nm)	0.0050 (ppm)	41.81	0.0050 (ppm)	-5751.1971
11/1/2017 21:16:30	Interference Check Solution A	Ni (230.299 nm)	-0.0016 u (ppm)	62.84	-0.0016 (ppm)	-37.1130
11/1/2017 21:16:30	Interference Check Solution A	Pb (220.353 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	2.2359
11/1/2017 21:16:30	Interference Check Solution A	Sb (217.582 nm)	-0.0042 u (ppm)	96.01	-0.0042 (ppm)	-1.9094
11/1/2017 21:16:30	Interference Check Solution A	Se (196.026 nm)	0.0041 u (ppm)	> 100.00	0.0041 (ppm)	9.1407

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:16:30	Interference Check Solution A	Sn (189.925 nm)	-0.0018 u (ppm)	49.99	-0.0018 (ppm)	-2.4196
11/1/2017 21:16:30	Interference Check Solution A	Sr (216.596 nm)	0.0189 (ppm)	3.25	0.0189 (ppm)	280.2526
11/1/2017 21:16:30	Interference Check Solution A	Ti (336.122 nm)	0.0014 (ppm)	9.10	0.0014 (ppm)	-116.4873
11/1/2017 21:16:30	Interference Check Solution A	Tl (351.923 nm)	0.0016 u (ppm)	> 100.00	0.0016 (ppm)	19.2611
11/1/2017 21:16:30	Interference Check Solution A	V (292.401 nm)	0.0035 K (ppm)	6.65	0.0035 (ppm)	237.6267 K
11/1/2017 21:16:30	Interference Check Solution A	Y (360.074 nm)	0.87 (Ratio)	0.83	0.87 (Ratio)	810720.73
11/1/2017 21:16:30	Interference Check Solution A	Y_R (360.074 nm)	0.87 (Ratio)	0.83	0.87 (Ratio)	811319.38
11/1/2017 21:16:30	Interference Check Solution A	Zn (213.857 nm)	0.0117 K (ppm)	1.79	0.0117 (ppm)	308.1188 K
11/1/2017 21:19:49	Interference Check Solution AB	Ag (328.068 nm)	0.2175 (ppm)	0.30	0.2175 (ppm)	15849.9823
11/1/2017 21:19:49	Interference Check Solution AB	Al (394.401 nm)	267.3423 o (ppm)	0.53	267.3423 (ppm)	3570027.6209
11/1/2017 21:19:49	Interference Check Solution AB	As (188.980 nm)	0.1050 (ppm)	5.66	0.1050 (ppm)	94.2642
11/1/2017 21:19:49	Interference Check Solution AB	B (249.772 nm)	0.0385 (ppm)	1.38	0.0385 (ppm)	1193.9849
11/1/2017 21:19:49	Interference Check Solution AB	Ba (230.424 nm)	0.5322 (ppm)	0.33	0.5322 (ppm)	18632.6788
11/1/2017 21:19:49	Interference Check Solution AB	Be (313.107 nm)	0.5129 (ppm)	0.36	0.5129 (ppm)	777476.4426
11/1/2017 21:19:49	Interference Check Solution AB	Ca (227.547 nm)	269.4789 o (ppm)	0.38	269.4789 (ppm)	15832.0319
11/1/2017 21:19:49	Interference Check Solution AB	Cd (214.439 nm)	0.9694 (ppm)	0.15	0.9694 (ppm)	22058.8594
11/1/2017 21:19:49	Interference Check Solution AB	Co (230.786 nm)	0.4993 (ppm)	0.49	0.4993 (ppm)	5137.6994
11/1/2017 21:19:49	Interference Check Solution AB	Cr (267.716 nm)	0.5001 (ppm)	0.30	0.5001 (ppm)	26082.7554
11/1/2017 21:19:49	Interference Check Solution AB	Cu (327.395 nm)	0.5351 (ppm)	0.56	0.5351 (ppm)	33630.4811
11/1/2017 21:19:49	Interference Check Solution AB	Fe (234.350 nm)	89.9781 o (ppm)	0.33	89.9781 (ppm)	1045357.3641
11/1/2017 21:19:49	Interference Check Solution AB	K (766.491 nm)	0.0348 (ppm)	11.78	0.0348 (ppm)	164.8447
11/1/2017 21:19:49	Interference Check Solution AB	Mg (279.078 nm)	266.3544 o (ppm)	0.53	266.3544 (ppm)	537438.1619
11/1/2017 21:19:49	Interference Check Solution AB	Mn (257.610 nm)	0.5018 (ppm)	0.40	0.5018 (ppm)	162379.4519
11/1/2017 21:19:49	Interference Check Solution AB	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.6249
11/1/2017 21:19:49	Interference Check Solution AB	Na (588.995 nm)	0.0120 (ppm)	10.98	0.0120 (ppm)	-5427.9971
11/1/2017 21:19:49	Interference Check Solution AB	Ni (230.299 nm)	0.9655 (ppm)	0.55	0.9655 (ppm)	6673.7384
11/1/2017 21:19:49	Interference Check Solution AB	Pb (220.353 nm)	0.0474 (ppm)	5.31	0.0474 (ppm)	111.3676
11/1/2017 21:19:49	Interference Check Solution AB	Sb (217.582 nm)	0.6154 (ppm)	1.11	0.6154 (ppm)	882.0335
11/1/2017 21:19:49	Interference Check Solution AB	Se (196.026 nm)	0.0494 (ppm)	5.22	0.0494 (ppm)	48.6482
11/1/2017 21:19:49	Interference Check Solution AB	Sn (189.925 nm)	0.0019 (ppm)	54.79	0.0019 (ppm)	2.2728
11/1/2017 21:19:49	Interference Check Solution AB	Sr (216.596 nm)	0.0193 (ppm)	1.18	0.0193 (ppm)	286.9404
11/1/2017 21:19:49	Interference Check Solution AB	Ti (336.122 nm)	0.0012 (ppm)	7.63	0.0012 (ppm)	-166.0473
11/1/2017 21:19:49	Interference Check Solution AB	Tl (351.923 nm)	0.1170 (ppm)	1.68	0.1170 (ppm)	346.8787
11/1/2017 21:19:49	Interference Check Solution AB	V (292.401 nm)	0.5149 (ppm)	0.45	0.5149 (ppm)	18645.3392
11/1/2017 21:19:49	Interference Check Solution AB	Y (360.074 nm)	0.86 (Ratio)	0.83	0.86 (Ratio)	809236.94
11/1/2017 21:19:49	Interference Check Solution AB	Y_R (360.074 nm)	0.87 (Ratio)	0.83	0.87 (Ratio)	809839.61
11/1/2017 21:19:49	Interference Check Solution AB	Zn (213.857 nm)	1.0365 (ppm)	0.28	1.0365 (ppm)	30084.5383
11/1/2017 21:23:09	HLCCV2	Ag (328.068 nm)	2.2101 Qo (ppm)	0.43	2.2101 (ppm)	162230.9387 Q
11/1/2017 21:23:09	HLCCV2	Al (394.401 nm)	544.5308 o (ppm)	0.62	544.5308 (ppm)	7271451.9677
11/1/2017 21:23:09	HLCCV2	As (188.980 nm)	4.1171 o (ppm)	0.96	4.1171 (ppm)	3807.6332
11/1/2017 21:23:09	HLCCV2	B (249.772 nm)	10.5952 o (ppm)	0.33	10.5952 (ppm)	303716.5229
11/1/2017 21:23:09	HLCCV2	Ba (230.424 nm)	38.2806 o (ppm)	0.20	38.2806 (ppm)	1339733.7413
11/1/2017 21:23:09	HLCCV2	Be (313.107 nm)	0.9939 o (ppm)	0.40	0.9939 (ppm)	1506978.1057
11/1/2017 21:23:09	HLCCV2	Ca (227.547 nm)	282.4571 Qo (ppm)	0.61	282.4571 (ppm)	16594.2119 Q
11/1/2017 21:23:09	HLCCV2	Cd (214.439 nm)	1.8727 o (ppm)	0.21	1.8727 (ppm)	42599.8990
11/1/2017 21:23:09	HLCCV2	Co (230.786 nm)	9.3450 o (ppm)	0.16	9.3450 (ppm)	96177.9026
11/1/2017 21:23:09	HLCCV2	Cr (267.716 nm)	9.6605 o (ppm)	0.32	9.6605 (ppm)	503827.0910
11/1/2017 21:23:09	HLCCV2	Cu (327.395 nm)	5.5861 Qo (ppm)	0.63	5.5861 (ppm)	350878.2152 Q
11/1/2017 21:23:09	HLCCV2	Fe (234.350 nm)	46.8529 o (ppm)	0.29	46.8529 (ppm)	544367.1861
11/1/2017 21:23:09	HLCCV2	K (766.491 nm)	176.2301 Qo (ppm)	0.62	176.2301 (ppm)	544179.4382 Q
11/1/2017 21:23:09	HLCCV2	Mg (279.078 nm)	521.6130 o (ppm)	0.37	521.6130 (ppm)	1052494.5179

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:23:09	HLCCV2	Mn (257.610 nm)	9.5866 o (ppm)	0.33	9.5866 (ppm)	3101584.5372
11/1/2017 21:23:09	HLCCV2	Mo (202.032 nm)	9.7006 o (ppm)	0.25	9.7006 (ppm)	103811.6539
11/1/2017 21:23:09	HLCCV2	Na (588.995 nm)	161.8823 o (ppm)	0.80	161.8823 (ppm)	7422280.4861
11/1/2017 21:23:09	HLCCV2	Ni (230.299 nm)	7.4228 o (ppm)	0.34	7.4228 (ppm)	51481.6637
11/1/2017 21:23:09	HLCCV2	Pb (220.353 nm)	9.4958 o (ppm)	0.20	9.4958 (ppm)	21202.5152
11/1/2017 21:23:09	HLCCV2	Sb (217.582 nm)	0.0326 (ppm)	10.88	0.0326 (ppm)	50.6639
11/1/2017 21:23:09	HLCCV2	Se (196.026 nm)	2.0559 o (ppm)	1.17	2.0559 (ppm)	1801.4470
11/1/2017 21:23:09	HLCCV2	Sn (189.925 nm)	-0.0240 u (ppm)	25.35	-0.0240 (ppm)	-30.7980
11/1/2017 21:23:09	HLCCV2	Sr (216.596 nm)	9.6629 o (ppm)	0.18	9.6629 (ppm)	144143.0787
11/1/2017 21:23:09	HLCCV2	Ti (336.122 nm)	10.1557 o (ppm)	0.49	10.1557 (ppm)	2226745.5972
11/1/2017 21:23:09	HLCCV2	Tl (351.923 nm)	4.5546 Qo (ppm)	0.52	4.5546 (ppm)	12945.3663 Q
11/1/2017 21:23:09	HLCCV2	V (292.401 nm)	9.9874 o (ppm)	0.44	9.9874 (ppm)	359623.8763
11/1/2017 21:23:09	HLCCV2	Y (360.074 nm)	0.82 (Ratio)	0.96	0.82 (Ratio)	765609.48
11/1/2017 21:23:09	HLCCV2	Y_R (360.074 nm)	0.82 (Ratio)	0.95	0.82 (Ratio)	766347.45
11/1/2017 21:23:09	HLCCV2	Zn (213.857 nm)	4.1010 o (ppm)	0.19	4.1010 (ppm)	119122.9359
11/1/2017 21:26:28	HLCCV3	Ag (328.068 nm)	0.0003 (ppm)	10.02	0.0003 (ppm)	-104.9727
11/1/2017 21:26:28	HLCCV3	Al (394.401 nm)	0.0539 (ppm)	14.40	0.0539 (ppm)	802.6417
11/1/2017 21:26:28	HLCCV3	As (188.980 nm)	0.0095 (ppm)	44.66	0.0095 (ppm)	5.8548
11/1/2017 21:26:28	HLCCV3	B (249.772 nm)	0.0244 (ppm)	10.71	0.0244 (ppm)	790.4464
11/1/2017 21:26:28	HLCCV3	Ba (230.424 nm)	0.0024 (ppm)	22.56	0.0024 (ppm)	92.7716
11/1/2017 21:26:28	HLCCV3	Be (313.107 nm)	0.0000 (ppm)	41.68	0.0000 (ppm)	-437.7563
11/1/2017 21:26:28	HLCCV3	Ca (227.547 nm)	202.4052 o (ppm)	0.62	202.4052 (ppm)	11892.9494
11/1/2017 21:26:28	HLCCV3	Cd (214.439 nm)	0.0009 (ppm)	10.23	0.0009 (ppm)	32.1810
11/1/2017 21:26:28	HLCCV3	Co (230.786 nm)	-0.0004 u (ppm)	96.12	-0.0004 (ppm)	-5.5553
11/1/2017 21:26:28	HLCCV3	Cr (267.716 nm)	0.0007 (ppm)	22.99	0.0007 (ppm)	38.3002
11/1/2017 21:26:28	HLCCV3	Cu (327.395 nm)	4.1382 o (ppm)	0.46	4.1382 (ppm)	259936.3819
11/1/2017 21:26:28	HLCCV3	Fe (234.350 nm)	37.9467 o (ppm)	0.32	37.9467 (ppm)	440902.8558
11/1/2017 21:26:28	HLCCV3	K (766.491 nm)	100.5641 o (ppm)	0.61	100.5641 (ppm)	310555.6244
11/1/2017 21:26:28	HLCCV3	Mg (279.078 nm)	0.0245 (ppm)	36.23	0.0245 (ppm)	42.4305
11/1/2017 21:26:28	HLCCV3	Mn (257.610 nm)	0.0027 (ppm)	5.83	0.0027 (ppm)	900.8512
11/1/2017 21:26:28	HLCCV3	Mo (202.032 nm)	0.0049 (ppm)	9.02	0.0049 (ppm)	69.5840
11/1/2017 21:26:28	HLCCV3	Na (588.995 nm)	0.0123 (ppm)	38.40	0.0123 (ppm)	-5414.5293
11/1/2017 21:26:28	HLCCV3	Ni (230.299 nm)	-0.0288 u (ppm)	1.07	-0.0288 (ppm)	-225.7619
11/1/2017 21:26:28	HLCCV3	Pb (220.353 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	6.1953
11/1/2017 21:26:28	HLCCV3	Sb (217.582 nm)	-0.0027 u (ppm)	54.02	-0.0027 (ppm)	0.2165
11/1/2017 21:26:28	HLCCV3	Se (196.026 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	6.1815
11/1/2017 21:26:28	HLCCV3	Sn (189.925 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	-1.5640
11/1/2017 21:26:28	HLCCV3	Sr (216.596 nm)	0.0062 (ppm)	6.92	0.0062 (ppm)	90.7128
11/1/2017 21:26:28	HLCCV3	Ti (336.122 nm)	0.0038 (ppm)	1.99	0.0038 (ppm)	407.5079
11/1/2017 21:26:28	HLCCV3	Tl (351.923 nm)	2.9944 o (ppm)	0.67	2.9944 (ppm)	8515.9127
11/1/2017 21:26:28	HLCCV3	V (292.401 nm)	0.0020 (ppm)	13.50	0.0020 (ppm)	181.8735
11/1/2017 21:26:28	HLCCV3	Y (360.074 nm)	0.92 (Ratio)	0.68	0.92 (Ratio)	859688.99
11/1/2017 21:26:28	HLCCV3	Y_R (360.074 nm)	0.92 (Ratio)	0.68	0.92 (Ratio)	860338.04
11/1/2017 21:26:28	HLCCV3	Zn (213.857 nm)	0.0065 (ppm)	2.76	0.0065 (ppm)	157.4734
11/1/2017 21:29:48	HLCCV1	Ag (328.068 nm)	1.0114 (ppm)	0.47	1.0114 (ppm)	74174.7258
11/1/2017 21:29:48	HLCCV1	Al (394.401 nm)	20.3312 (ppm)	0.64	20.3312 (ppm)	271574.8792
11/1/2017 21:29:48	HLCCV1	As (188.980 nm)	2.0124 (ppm)	0.75	2.0124 (ppm)	1859.6888
11/1/2017 21:29:48	HLCCV1	B (249.772 nm)	5.0430 (ppm)	0.38	5.0430 (ppm)	144607.4954
11/1/2017 21:29:48	HLCCV1	Ba (230.424 nm)	20.1288 (ppm)	0.51	20.1288 (ppm)	704465.1867
11/1/2017 21:29:48	HLCCV1	Be (313.107 nm)	0.5059 (ppm)	0.29	0.5059 (ppm)	766855.2778
11/1/2017 21:29:48	HLCCV1	Ca (227.547 nm)	50.6192 (ppm)	0.86	50.6192 (ppm)	2978.9145

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:29:48	HLCCV1	Cd (214.439 nm)	1.0029 (ppm)	0.34	1.0029 (ppm)	22819.5325
11/1/2017 21:29:48	HLCCV1	Co (230.786 nm)	5.0241 (ppm)	0.40	5.0241 (ppm)	51707.1861
11/1/2017 21:29:48	HLCCV1	Cr (267.716 nm)	1.0146 (ppm)	0.43	1.0146 (ppm)	52916.5796
11/1/2017 21:29:48	HLCCV1	Cu (327.395 nm)	2.5323 (ppm)	0.70	2.5323 (ppm)	159072.6990
11/1/2017 21:29:48	HLCCV1	Fe (234.350 nm)	10.0961 (ppm)	0.45	10.0961 (ppm)	117360.4196
11/1/2017 21:29:48	HLCCV1	K (766.491 nm)	51.0221 (ppm)	0.75	51.0221 (ppm)	157591.6180
11/1/2017 21:29:48	HLCCV1	Mg (279.078 nm)	50.5354 (ppm)	0.38	50.5354 (ppm)	101962.4799
11/1/2017 21:29:48	HLCCV1	Mn (257.610 nm)	1.5175 (ppm)	0.41	1.5175 (ppm)	490979.2999
11/1/2017 21:29:48	HLCCV1	Mo (202.032 nm)	5.0468 (ppm)	0.35	5.0468 (ppm)	54017.1396
11/1/2017 21:29:48	HLCCV1	Na (588.995 nm)	50.9004 (ppm)	0.92	50.9004 (ppm)	2329679.3024
11/1/2017 21:29:48	HLCCV1	Ni (230.299 nm)	4.0234 (ppm)	0.32	4.0234 (ppm)	27892.7677
11/1/2017 21:29:48	HLCCV1	Pb (220.353 nm)	1.0064 (ppm)	0.36	1.0064 (ppm)	2252.1867
11/1/2017 21:29:48	HLCCV1	Sb (217.582 nm)	10.0121 (ppm)	0.56	10.0121 (ppm)	14287.3126
11/1/2017 21:29:48	HLCCV1	Se (196.026 nm)	0.9982 (ppm)	0.73	0.9982 (ppm)	877.5295
11/1/2017 21:29:48	HLCCV1	Sn (189.925 nm)	10.0043 (ppm)	0.58	10.0043 (ppm)	12747.6268
11/1/2017 21:29:48	HLCCV1	Sr (216.596 nm)	5.0551 (ppm)	0.19	5.0551 (ppm)	75406.5115
11/1/2017 21:29:48	HLCCV1	Ti (336.122 nm)	5.0601 (ppm)	0.53	5.0601 (ppm)	1109260.7210
11/1/2017 21:29:48	HLCCV1	Tl (351.923 nm)	2.0298 (ppm)	0.59	2.0298 (ppm)	5777.2450
11/1/2017 21:29:48	HLCCV1	V (292.401 nm)	5.0648 (ppm)	0.48	5.0648 (ppm)	182425.3271
11/1/2017 21:29:48	HLCCV1	Y (360.074 nm)	0.92 (Ratio)	0.87	0.92 (Ratio)	864309.51
11/1/2017 21:29:48	HLCCV1	Y_R (360.074 nm)	0.92 (Ratio)	0.86	0.92 (Ratio)	864955.03
11/1/2017 21:29:48	HLCCV1	Zn (213.857 nm)	2.0137 (ppm)	0.47	2.0137 (ppm)	58478.7202
11/1/2017 21:33:08	Continuing Calibration Verification1	Ag (328.068 nm)	0.4965 (ppm)	0.52	0.4965 (ppm)	36344.2828
11/1/2017 21:33:08	Continuing Calibration Verification1	Al (394.401 nm)	9.6722 (ppm)	0.73	9.6722 (ppm)	129241.1686
11/1/2017 21:33:08	Continuing Calibration Verification1	As (188.980 nm)	0.9772 (ppm)	1.13	0.9772 (ppm)	901.5653
11/1/2017 21:33:08	Continuing Calibration Verification1	B (249.772 nm)	2.4524 (ppm)	0.49	2.4524 (ppm)	70368.1316
11/1/2017 21:33:08	Continuing Calibration Verification1	Ba (230.424 nm)	10.4536 (ppm)	0.30	10.4536 (ppm)	365856.7729
11/1/2017 21:33:08	Continuing Calibration Verification1	Be (313.107 nm)	0.2577 (ppm)	0.51	0.2577 (ppm)	390368.8320
11/1/2017 21:33:08	Continuing Calibration Verification1	Ca (227.547 nm)	24.4817 (ppm)	1.10	24.4817 (ppm)	1443.9250
11/1/2017 21:33:08	Continuing Calibration Verification1	Cd (214.439 nm)	0.5051 (ppm)	0.20	0.5051 (ppm)	11500.4028
11/1/2017 21:33:08	Continuing Calibration Verification1	Co (230.786 nm)	2.6261 (ppm)	0.41	2.6261 (ppm)	27026.1146
11/1/2017 21:33:08	Continuing Calibration Verification1	Cr (267.716 nm)	0.5129 (ppm)	0.48	0.5129 (ppm)	26748.6267
11/1/2017 21:33:08	Continuing Calibration Verification1	Cu (327.395 nm)	1.2200 (ppm)	0.94	1.2200 (ppm)	76650.9323
11/1/2017 21:33:08	Continuing Calibration Verification1	Fe (234.350 nm)	4.9320 (ppm)	0.50	4.9320 (ppm)	57368.4767
11/1/2017 21:33:08	Continuing Calibration Verification1	K (766.491 nm)	25.0807 (ppm)	0.93	25.0807 (ppm)	77495.7656
11/1/2017 21:33:08	Continuing Calibration Verification1	Mg (279.078 nm)	25.3412 (ppm)	0.45	25.3412 (ppm)	51126.0399
11/1/2017 21:33:08	Continuing Calibration Verification1	Mn (257.610 nm)	0.7656 (ppm)	0.41	0.7656 (ppm)	247723.5118
11/1/2017 21:33:08	Continuing Calibration Verification1	Mo (202.032 nm)	2.4414 (ppm)	0.50	2.4414 (ppm)	26139.0634
11/1/2017 21:33:08	Continuing Calibration Verification1	Na (588.995 nm)	25.1840 (ppm)	0.87	25.1840 (ppm)	1149634.3193
11/1/2017 21:33:08	Continuing Calibration Verification1	Ni (230.299 nm)	2.0643 (ppm)	0.46	2.0643 (ppm)	14298.5692
11/1/2017 21:33:08	Continuing Calibration Verification1	Pb (220.353 nm)	0.5057 (ppm)	0.61	0.5057 (ppm)	1134.5263
11/1/2017 21:33:08	Continuing Calibration Verification1	Sb (217.582 nm)	4.9651 (ppm)	0.58	4.9651 (ppm)	7087.3644
11/1/2017 21:33:08	Continuing Calibration Verification1	Se (196.026 nm)	0.4885 (ppm)	0.80	0.4885 (ppm)	432.2856
11/1/2017 21:33:08	Continuing Calibration Verification1	Sn (189.925 nm)	5.1153 (ppm)	0.57	5.1153 (ppm)	6517.8611
11/1/2017 21:33:08	Continuing Calibration Verification1	Sr (216.596 nm)	2.5491 (ppm)	0.29	2.5491 (ppm)	38024.8051
11/1/2017 21:33:08	Continuing Calibration Verification1	Ti (336.122 nm)	2.5263 (ppm)	1.01	2.5263 (ppm)	553601.7523
11/1/2017 21:33:08	Continuing Calibration Verification1	Tl (351.923 nm)	1.0029 (ppm)	0.48	1.0029 (ppm)	2861.8312
11/1/2017 21:33:08	Continuing Calibration Verification1	V (292.401 nm)	2.5639 (ppm)	0.52	2.5639 (ppm)	92402.1256
11/1/2017 21:33:08	Continuing Calibration Verification1	Y (360.074 nm)	0.95 (Ratio)	0.84	0.95 (Ratio)	887597.57
11/1/2017 21:33:08	Continuing Calibration Verification1	Y_R (360.074 nm)	0.95 (Ratio)	0.83	0.95 (Ratio)	888190.77
11/1/2017 21:33:08	Continuing Calibration Verification1	Zn (213.857 nm)	1.0140 (ppm)	0.44	1.0140 (ppm)	29431.9796

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:36:27	Continuing Calibration Blank1	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-124.6288
11/1/2017 21:36:27	Continuing Calibration Blank1	Al (394.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	84.1779
11/1/2017 21:36:27	Continuing Calibration Blank1	As (188.980 nm)	0.0039 (ppm)	31.46	0.0039 (ppm)	0.6933
11/1/2017 21:36:27	Continuing Calibration Blank1	B (249.772 nm)	0.0036 (ppm)	24.01	0.0036 (ppm)	194.2154
11/1/2017 21:36:27	Continuing Calibration Blank1	Ba (230.424 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	10.9594
11/1/2017 21:36:27	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-507.1500
11/1/2017 21:36:27	Continuing Calibration Blank1	Ca (227.547 nm)	-0.0216 u (ppm)	> 100.00	-0.0216 (ppm)	4.9033
11/1/2017 21:36:27	Continuing Calibration Blank1	Cd (214.439 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	16.1590
11/1/2017 21:36:27	Continuing Calibration Blank1	Co (230.786 nm)	-0.0003 u (ppm)	90.50	-0.0003 (ppm)	-4.1977
11/1/2017 21:36:27	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	1.5114
11/1/2017 21:36:27	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	19.6668
11/1/2017 21:36:27	Continuing Calibration Blank1	Fe (234.350 nm)	0.0003 (ppm)	41.96	0.0003 (ppm)	76.8224
11/1/2017 21:36:27	Continuing Calibration Blank1	K (766.491 nm)	0.0485 (ppm)	11.44	0.0485 (ppm)	207.1869
11/1/2017 21:36:27	Continuing Calibration Blank1	Mg (279.078 nm)	0.0017 (ppm)	49.45	0.0017 (ppm)	-3.6592
11/1/2017 21:36:27	Continuing Calibration Blank1	Mn (257.610 nm)	0.0000 u (ppm)	31.62	0.0000 (ppm)	19.1440
11/1/2017 21:36:27	Continuing Calibration Blank1	Mo (202.032 nm)	0.0025 (ppm)	16.93	0.0025 (ppm)	43.5048
11/1/2017 21:36:27	Continuing Calibration Blank1	Na (588.995 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-5977.7952
11/1/2017 21:36:27	Continuing Calibration Blank1	Ni (230.299 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-25.5914
11/1/2017 21:36:27	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.1382
11/1/2017 21:36:27	Continuing Calibration Blank1	Sb (217.582 nm)	0.0017 (ppm)	46.93	0.0017 (ppm)	6.6222
11/1/2017 21:36:27	Continuing Calibration Blank1	Se (196.026 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	5.9742
11/1/2017 21:36:27	Continuing Calibration Blank1	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.2001
11/1/2017 21:36:27	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.0145
11/1/2017 21:36:27	Continuing Calibration Blank1	Ti (336.122 nm)	0.0009 (ppm)	5.88	0.0009 (ppm)	-228.0672
11/1/2017 21:36:27	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0023 u (ppm)	23.82	-0.0023 (ppm)	8.0409
11/1/2017 21:36:27	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u (ppm)	16.60	-0.0001 (ppm)	108.0478
11/1/2017 21:36:27	Continuing Calibration Blank1	Y (360.074 nm)	0.99 (Ratio)	0.96	0.99 (Ratio)	928572.82
11/1/2017 21:36:27	Continuing Calibration Blank1	Y_R (360.074 nm)	0.99 (Ratio)	0.96	0.99 (Ratio)	929056.45
11/1/2017 21:36:27	Continuing Calibration Blank1	Zn (213.857 nm)	0.0002 (ppm)	48.85	0.0002 (ppm)	-25.6228
11/1/2017 21:39:46	PBW-301737	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-124.5725
11/1/2017 21:39:46	PBW-301737	Al (394.401 nm)	0.0013 (ppm)	29.91	0.0013 (ppm)	101.0924
11/1/2017 21:39:46	PBW-301737	As (188.980 nm)	0.0018 u (ppm)	> 100.00	0.0018 (ppm)	-1.1934
11/1/2017 21:39:46	PBW-301737	B (249.772 nm)	0.0014 (ppm)	18.14	0.0014 (ppm)	130.8387
11/1/2017 21:39:46	PBW-301737	Ba (230.424 nm)	-0.0001 u (ppm)	44.72	-0.0001 (ppm)	3.3616
11/1/2017 21:39:46	PBW-301737	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-513.0734
11/1/2017 21:39:46	PBW-301737	Ca (227.547 nm)	-0.0383 u (ppm)	87.82	-0.0383 (ppm)	3.9194
11/1/2017 21:39:46	PBW-301737	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.0980
11/1/2017 21:39:46	PBW-301737	Co (230.786 nm)	-0.0002 u (ppm)	95.48	-0.0002 (ppm)	-3.1667
11/1/2017 21:39:46	PBW-301737	Cr (267.716 nm)	0.0003 (ppm)	25.10	0.0003 (ppm)	17.4511
11/1/2017 21:39:46	PBW-301737	Cu (327.395 nm)	-0.0001 u (ppm)	61.44	-0.0001 (ppm)	14.5484
11/1/2017 21:39:46	PBW-301737	Fe (234.350 nm)	0.0065 (ppm)	6.10	0.0065 (ppm)	148.4566
11/1/2017 21:39:46	PBW-301737	K (766.491 nm)	0.0156 (ppm)	4.66	0.0156 (ppm)	105.7236
11/1/2017 21:39:46	PBW-301737	Mg (279.078 nm)	0.0011 (ppm)	62.63	0.0011 (ppm)	-4.7778
11/1/2017 21:39:46	PBW-301737	Mn (257.610 nm)	0.0003 (ppm)	2.50	0.0003 (ppm)	140.1575
11/1/2017 21:39:46	PBW-301737	Mo (202.032 nm)	-0.0003 u (ppm)	71.21	-0.0003 (ppm)	13.4053
11/1/2017 21:39:46	PBW-301737	Na (588.995 nm)	0.0141 (ppm)	8.90	0.0141 (ppm)	-5333.3094
11/1/2017 21:39:46	PBW-301737	Ni (230.299 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-20.7466
11/1/2017 21:39:46	PBW-301737	Pb (220.353 nm)	-0.0005 u (ppm)	49.13	-0.0005 (ppm)	4.6208
11/1/2017 21:39:46	PBW-301737	Sb (217.582 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	4.2125
11/1/2017 21:39:46	PBW-301737	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.9701
11/1/2017 21:39:46	PBW-301737	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.6876

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:39:46	PBW-301737	Sr (216.596 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.9659
11/1/2017 21:39:46	PBW-301737	Ti (336.122 nm)	0.0006 (ppm)	22.06	0.0006 (ppm)	-292.8218
11/1/2017 21:39:46	PBW-301737	Tl (351.923 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	15.1809
11/1/2017 21:39:46	PBW-301737	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	108.1985
11/1/2017 21:39:46	PBW-301737	Y (360.074 nm)	1.01 (Ratio)	0.85	1.01 (Ratio)	944311.39
11/1/2017 21:39:46	PBW-301737	Y_R (360.074 nm)	1.01 (Ratio)	0.85	1.01 (Ratio)	944804.04
11/1/2017 21:39:46	PBW-301737	Zn (213.857 nm)	0.0037 (ppm)	1.10	0.0037 (ppm)	77.6032
11/1/2017 21:43:05	LCSW-301737	Ag (328.068 nm)	0.0501 (ppm)	1.15	0.0501 (ppm)	3554.8477
11/1/2017 21:43:05	LCSW-301737	Al (394.401 nm)	1.8750 (ppm)	0.78	1.8750 (ppm)	25121.6443
11/1/2017 21:43:05	LCSW-301737	As (188.980 nm)	0.0435 (ppm)	12.02	0.0435 (ppm)	37.3855
11/1/2017 21:43:05	LCSW-301737	B (249.772 nm)	0.9734 (ppm)	0.48	0.9734 (ppm)	27985.7103
11/1/2017 21:43:05	LCSW-301737	Ba (230.424 nm)	2.1003 (ppm)	0.80	2.1003 (ppm)	73513.6760
11/1/2017 21:43:05	LCSW-301737	Be (313.107 nm)	0.0510 (ppm)	0.55	0.0510 (ppm)	76799.4644
11/1/2017 21:43:05	LCSW-301737	Ca (227.547 nm)	1.9372 (ppm)	3.31	1.9372 (ppm)	119.9396
11/1/2017 21:43:05	LCSW-301737	Cd (214.439 nm)	0.0520 (ppm)	0.89	0.0520 (ppm)	1194.7515
11/1/2017 21:43:05	LCSW-301737	Co (230.786 nm)	0.5192 (ppm)	0.50	0.5192 (ppm)	5341.8677
11/1/2017 21:43:05	LCSW-301737	Cr (267.716 nm)	0.2016 (ppm)	0.66	0.2016 (ppm)	10512.4361
11/1/2017 21:43:05	LCSW-301737	Cu (327.395 nm)	0.2474 (ppm)	0.59	0.2474 (ppm)	15560.3588
11/1/2017 21:43:05	LCSW-301737	Fe (234.350 nm)	0.9813 (ppm)	0.56	0.9813 (ppm)	11472.6440
11/1/2017 21:43:05	LCSW-301737	K (766.491 nm)	19.4553 (ppm)	0.69	19.4553 (ppm)	60126.9921
11/1/2017 21:43:05	LCSW-301737	Mg (279.078 nm)	2.0172 (ppm)	0.53	2.0172 (ppm)	4063.1798
11/1/2017 21:43:05	LCSW-301737	Mn (257.610 nm)	0.5019 (ppm)	0.52	0.5019 (ppm)	162426.0547
11/1/2017 21:43:05	LCSW-301737	Mo (202.032 nm)	0.4824 (ppm)	0.57	0.4824 (ppm)	5178.7962
11/1/2017 21:43:05	LCSW-301737	Na (588.995 nm)	19.8721 (ppm)	0.97	19.8721 (ppm)	905888.5577
11/1/2017 21:43:05	LCSW-301737	Ni (230.299 nm)	0.5183 (ppm)	0.71	0.5183 (ppm)	3570.4220
11/1/2017 21:43:05	LCSW-301737	Pb (220.353 nm)	0.5178 (ppm)	0.33	0.5178 (ppm)	1161.5493
11/1/2017 21:43:05	LCSW-301737	Sb (217.582 nm)	0.4981 (ppm)	1.20	0.4981 (ppm)	714.7868
11/1/2017 21:43:05	LCSW-301737	Se (196.026 nm)	1.0355 (ppm)	0.21	1.0355 (ppm)	910.1066
11/1/2017 21:43:05	LCSW-301737	Sn (189.925 nm)	5.0778 (ppm)	0.61	5.0778 (ppm)	6470.0808
11/1/2017 21:43:05	LCSW-301737	Sr (216.596 nm)	2.0601 (ppm)	0.56	2.0601 (ppm)	30729.5504
11/1/2017 21:43:05	LCSW-301737	Ti (336.122 nm)	0.4967 (ppm)	0.58	0.4967 (ppm)	108500.8145
11/1/2017 21:43:05	LCSW-301737	Tl (351.923 nm)	1.8961 (ppm)	0.51	1.8961 (ppm)	5397.7874
11/1/2017 21:43:05	LCSW-301737	V (292.401 nm)	0.5049 (ppm)	0.67	0.5049 (ppm)	18286.0604
11/1/2017 21:43:05	LCSW-301737	Y (360.074 nm)	0.98 (Ratio)	0.94	0.98 (Ratio)	916933.69
11/1/2017 21:43:05	LCSW-301737	Y_R (360.074 nm)	0.98 (Ratio)	0.93	0.98 (Ratio)	917378.68
11/1/2017 21:43:05	LCSW-301737	Zn (213.857 nm)	0.5116 (ppm)	0.63	0.5116 (ppm)	14833.4953
11/1/2017 21:46:25	R1710018-003 100X	Ag (328.068 nm)	-0.0002 u (ppm)	21.52	-0.0002 (ppm)	-137.0045
11/1/2017 21:46:25	R1710018-003 100X	Al (394.401 nm)	0.0048 (ppm)	7.59	0.0048 (ppm)	146.8854
11/1/2017 21:46:25	R1710018-003 100X	As (188.980 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-2.7735
11/1/2017 21:46:25	R1710018-003 100X	B (249.772 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	93.6515
11/1/2017 21:46:25	R1710018-003 100X	Ba (230.424 nm)	0.0005 (ppm)	3.97	0.0005 (ppm)	26.4229
11/1/2017 21:46:25	R1710018-003 100X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-503.9792
11/1/2017 21:46:25	R1710018-003 100X	Ca (227.547 nm)	1.2876 (ppm)	2.71	1.2876 (ppm)	81.7882
11/1/2017 21:46:25	R1710018-003 100X	Cd (214.439 nm)	0.0001 (ppm)	17.49	0.0001 (ppm)	15.7269
11/1/2017 21:46:25	R1710018-003 100X	Co (230.786 nm)	-0.0003 u (ppm)	11.77	-0.0003 (ppm)	-4.6010
11/1/2017 21:46:25	R1710018-003 100X	Cr (267.716 nm)	-0.0067 u (ppm)	3.55	-0.0067 (ppm)	-351.7257
11/1/2017 21:46:25	R1710018-003 100X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	21.9442
11/1/2017 21:46:25	R1710018-003 100X	Fe (234.350 nm)	0.0027 (ppm)	6.41	0.0027 (ppm)	104.2587
11/1/2017 21:46:25	R1710018-003 100X	K (766.491 nm)	0.1382 (ppm)	4.43	0.1382 (ppm)	484.3040
11/1/2017 21:46:25	R1710018-003 100X	Mg (279.078 nm)	0.1305 (ppm)	0.36	0.1305 (ppm)	256.2419
11/1/2017 21:46:25	R1710018-003 100X	Mn (257.610 nm)	21.6414 o (ppm)	1.35	21.6414 (ppm)	7001686.9647

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:46:25	R1710018-003 100X	Mo (202.032 nm)	0.0005 (ppm)	28.15	0.0005 (ppm)	22.3361
11/1/2017 21:46:25	R1710018-003 100X	Na (588.995 nm)	13.5702 (ppm)	0.92	13.5702 (ppm)	616713.9713
11/1/2017 21:46:25	R1710018-003 100X	Ni (230.299 nm)	0.0010 (ppm)	63.91	0.0010 (ppm)	-19.2531
11/1/2017 21:46:25	R1710018-003 100X	Pb (220.353 nm)	0.0016 (ppm)	64.62	0.0016 (ppm)	9.1955
11/1/2017 21:46:25	R1710018-003 100X	Sb (217.582 nm)	-0.0021 u (ppm)	60.67	-0.0021 (ppm)	1.1628
11/1/2017 21:46:25	R1710018-003 100X	Se (196.026 nm)	0.0103 (ppm)	2.52	0.0103 (ppm)	14.5155
11/1/2017 21:46:25	R1710018-003 100X	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.0441
11/1/2017 21:46:25	R1710018-003 100X	Sr (216.596 nm)	0.0056 (ppm)	4.52	0.0056 (ppm)	82.7882
11/1/2017 21:46:25	R1710018-003 100X	Ti (336.122 nm)	0.0003 (ppm)	29.89	0.0003 (ppm)	-361.4708
11/1/2017 21:46:25	R1710018-003 100X	Tl (351.923 nm)	-0.0038 u (ppm)	> 100.00	-0.0038 (ppm)	3.8366
11/1/2017 21:46:25	R1710018-003 100X	V (292.401 nm)	0.0001 (ppm)	26.18	0.0001 (ppm)	115.2997
11/1/2017 21:46:25	R1710018-003 100X	Y (360.074 nm)	0.98 (Ratio)	0.87	0.98 (Ratio)	917985.30
11/1/2017 21:46:25	R1710018-003 100X	Y_R (360.074 nm)	0.98 (Ratio)	0.88	0.98 (Ratio)	918313.06
11/1/2017 21:46:25	R1710018-003 100X	Zn (213.857 nm)	0.0017 (ppm)	4.62	0.0017 (ppm)	19.6790
11/1/2017 21:49:44	R1710018-009 100X	Ag (328.068 nm)	-0.0002 u (ppm)	21.91	-0.0002 (ppm)	-143.8980
11/1/2017 21:49:44	R1710018-009 100X	Al (394.401 nm)	0.0058 (ppm)	13.75	0.0058 (ppm)	160.5666
11/1/2017 21:49:44	R1710018-009 100X	As (188.980 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	-1.0068
11/1/2017 21:49:44	R1710018-009 100X	B (249.772 nm)	-0.0013 u (ppm)	5.59	-0.0013 (ppm)	54.1831
11/1/2017 21:49:44	R1710018-009 100X	Ba (230.424 nm)	0.0002 (ppm)	12.44	0.0002 (ppm)	15.0789
11/1/2017 21:49:44	R1710018-009 100X	Be (313.107 nm)	0.0000 (ppm)	59.24	0.0000 (ppm)	-510.0815
11/1/2017 21:49:44	R1710018-009 100X	Ca (227.547 nm)	1.7317 (ppm)	2.57	1.7317 (ppm)	107.8698
11/1/2017 21:49:44	R1710018-009 100X	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	14.9723
11/1/2017 21:49:44	R1710018-009 100X	Co (230.786 nm)	-0.0002 u (ppm)	60.59	-0.0002 (ppm)	-3.2938
11/1/2017 21:49:44	R1710018-009 100X	Cr (267.716 nm)	-0.0098 u (ppm)	4.63	-0.0098 (ppm)	-508.9778
11/1/2017 21:49:44	R1710018-009 100X	Cu (327.395 nm)	0.0001 (ppm)	73.60	0.0001 (ppm)	29.0099
11/1/2017 21:49:44	R1710018-009 100X	Fe (234.350 nm)	0.0013 (ppm)	23.72	0.0013 (ppm)	87.2966
11/1/2017 21:49:44	R1710018-009 100X	K (766.491 nm)	0.2148 (ppm)	1.62	0.2148 (ppm)	720.5760
11/1/2017 21:49:44	R1710018-009 100X	Mg (279.078 nm)	0.1974 (ppm)	1.57	0.1974 (ppm)	391.3536
11/1/2017 21:49:44	R1710018-009 100X	Mn (257.610 nm)	26.7456 o (ppm)	4.36	26.7456 (ppm)	8653035.1668
11/1/2017 21:49:44	R1710018-009 100X	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.1983
11/1/2017 21:49:44	R1710018-009 100X	Na (588.995 nm)	20.8618 (ppm)	0.74	20.8618 (ppm)	951304.6303
11/1/2017 21:49:44	R1710018-009 100X	Ni (230.299 nm)	0.0008 (ppm)	55.77	0.0008 (ppm)	-20.8252
11/1/2017 21:49:44	R1710018-009 100X	Pb (220.353 nm)	0.0029 (ppm)	33.82	0.0029 (ppm)	12.0274
11/1/2017 21:49:44	R1710018-009 100X	Sb (217.582 nm)	-0.0030 u (ppm)	39.80	-0.0030 (ppm)	-0.1490
11/1/2017 21:49:44	R1710018-009 100X	Se (196.026 nm)	0.0128 (ppm)	11.27	0.0128 (ppm)	16.7428
11/1/2017 21:49:44	R1710018-009 100X	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.2966
11/1/2017 21:49:44	R1710018-009 100X	Sr (216.596 nm)	0.0069 (ppm)	3.75	0.0069 (ppm)	102.2977
11/1/2017 21:49:44	R1710018-009 100X	Ti (336.122 nm)	-0.0002 u (ppm)	14.40	-0.0002 (ppm)	-456.9330
11/1/2017 21:49:44	R1710018-009 100X	Tl (351.923 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	10.0027
11/1/2017 21:49:44	R1710018-009 100X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	111.7773
11/1/2017 21:49:44	R1710018-009 100X	Y (360.074 nm)	0.98 (Ratio)	0.75	0.98 (Ratio)	914701.17
11/1/2017 21:49:44	R1710018-009 100X	Y_R (360.074 nm)	0.98 (Ratio)	0.75	0.98 (Ratio)	915096.47
11/1/2017 21:49:44	R1710018-009 100X	Zn (213.857 nm)	0.0014 (ppm)	2.23	0.0014 (ppm)	9.8164
11/1/2017 21:53:03	R1710018-009L 100X	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-128.1184
11/1/2017 21:53:03	R1710018-009L 100X	Al (394.401 nm)	0.0014 (ppm)	50.48	0.0014 (ppm)	101.8131
11/1/2017 21:53:03	R1710018-009L 100X	As (188.980 nm)	0.0030 (ppm)	62.47	0.0030 (ppm)	-0.0978
11/1/2017 21:53:03	R1710018-009L 100X	B (249.772 nm)	-0.0011 u (ppm)	7.86	-0.0011 (ppm)	58.1962
11/1/2017 21:53:03	R1710018-009L 100X	Ba (230.424 nm)	-0.0001 u (ppm)	46.88	-0.0001 (ppm)	3.6509
11/1/2017 21:53:03	R1710018-009L 100X	Be (313.107 nm)	0.0000 (ppm)	84.02	0.0000 (ppm)	-519.2966
11/1/2017 21:53:03	R1710018-009L 100X	Ca (227.547 nm)	0.3976 (ppm)	5.84	0.3976 (ppm)	29.5203
11/1/2017 21:53:03	R1710018-009L 100X	Cd (214.439 nm)	0.0001 (ppm)	88.36	0.0001 (ppm)	14.8088

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:53:03	R1710018-009L 100X	Co (230.786 nm)	-0.0003 u (ppm)	40.12	-0.0003 (ppm)	-4.0609
11/1/2017 21:53:03	R1710018-009L 100X	Cr (267.716 nm)	-0.0027 u (ppm)	4.95	-0.0027 (ppm)	-142.5775
11/1/2017 21:53:03	R1710018-009L 100X	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	22.1458
11/1/2017 21:53:03	R1710018-009L 100X	Fe (234.350 nm)	-0.0016 u (ppm)	6.65	-0.0016 (ppm)	53.8449
11/1/2017 21:53:03	R1710018-009L 100X	K (766.491 nm)	0.0530 (ppm)	13.43	0.0530 (ppm)	221.0196
11/1/2017 21:53:03	R1710018-009L 100X	Mg (279.078 nm)	0.0434 (ppm)	2.63	0.0434 (ppm)	80.4942
11/1/2017 21:53:03	R1710018-009L 100X	Mn (257.610 nm)	8.2384 o (ppm)	2.85	8.2384 (ppm)	2665401.8736
11/1/2017 21:53:03	R1710018-009L 100X	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	15.0479
11/1/2017 21:53:03	R1710018-009L 100X	Na (588.995 nm)	4.7118 (ppm)	0.91	4.7118 (ppm)	210231.5731
11/1/2017 21:53:03	R1710018-009L 100X	Ni (230.299 nm)	0.0010 (ppm)	26.02	0.0010 (ppm)	-19.3017
11/1/2017 21:53:03	R1710018-009L 100X	Pb (220.353 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	7.1219
11/1/2017 21:53:03	R1710018-009L 100X	Sb (217.582 nm)	-0.0045 u (ppm)	27.79	-0.0045 (ppm)	-2.3453
11/1/2017 21:53:03	R1710018-009L 100X	Se (196.026 nm)	0.0027 (ppm)	44.59	0.0027 (ppm)	7.8432
11/1/2017 21:53:03	R1710018-009L 100X	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.5128
11/1/2017 21:53:03	R1710018-009L 100X	Sr (216.596 nm)	0.0017 (ppm)	1.87	0.0017 (ppm)	23.9333
11/1/2017 21:53:03	R1710018-009L 100X	Ti (336.122 nm)	-0.0002 u (ppm)	37.89	-0.0002 (ppm)	-463.8551
11/1/2017 21:53:03	R1710018-009L 100X	Tl (351.923 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	10.9172
11/1/2017 21:53:03	R1710018-009L 100X	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	106.9950
11/1/2017 21:53:03	R1710018-009L 100X	Y (360.074 nm)	0.99 (Ratio)	0.93	0.99 (Ratio)	926747.68
11/1/2017 21:53:03	R1710018-009L 100X	Y_R (360.074 nm)	0.99 (Ratio)	0.94	0.99 (Ratio)	927006.05
11/1/2017 21:53:03	R1710018-009L 100X	Zn (213.857 nm)	0.0023 (ppm)	0.54	0.0023 (ppm)	36.6573
11/1/2017 21:56:22	FBLK-302021	Ag (328.068 nm)	0.0001 (ppm)	54.28	0.0001 (ppm)	-120.3757
11/1/2017 21:56:22	FBLK-302021	Al (394.401 nm)	0.0091 (ppm)	2.31	0.0091 (ppm)	204.5981
11/1/2017 21:56:22	FBLK-302021	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.0098
11/1/2017 21:56:22	FBLK-302021	B (249.772 nm)	0.0138 (ppm)	1.38	0.0138 (ppm)	486.4114
11/1/2017 21:56:22	FBLK-302021	Ba (230.424 nm)	0.0260 (ppm)	0.74	0.0260 (ppm)	919.0657
11/1/2017 21:56:22	FBLK-302021	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-507.8516
11/1/2017 21:56:22	FBLK-302021	Ca (227.547 nm)	-0.0102 u (ppm)	> 100.00	-0.0102 (ppm)	5.5700
11/1/2017 21:56:22	FBLK-302021	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	10.4543
11/1/2017 21:56:22	FBLK-302021	Co (230.786 nm)	-0.0003 u (ppm)	32.58	-0.0003 (ppm)	-4.0102
11/1/2017 21:56:22	FBLK-302021	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-5.4093
11/1/2017 21:56:22	FBLK-302021	Cu (327.395 nm)	0.0008 (ppm)	9.22	0.0008 (ppm)	69.3263
11/1/2017 21:56:22	FBLK-302021	Fe (234.350 nm)	-0.0041 u (ppm)	1.64	-0.0041 (ppm)	25.0126
11/1/2017 21:56:22	FBLK-302021	K (766.491 nm)	0.0156 (ppm)	34.10	0.0156 (ppm)	105.6351
11/1/2017 21:56:22	FBLK-302021	Mg (279.078 nm)	0.0060 (ppm)	1.01	0.0060 (ppm)	5.1519
11/1/2017 21:56:22	FBLK-302021	Mn (257.610 nm)	0.0242 (ppm)	30.75	0.0242 (ppm)	7863.7192
11/1/2017 21:56:22	FBLK-302021	Mo (202.032 nm)	-0.0008 u (ppm)	36.19	-0.0008 (ppm)	8.4592
11/1/2017 21:56:22	FBLK-302021	Na (588.995 nm)	0.1993 (ppm)	0.63	0.1993 (ppm)	3166.2263
11/1/2017 21:56:22	FBLK-302021	Ni (230.299 nm)	0.0007 (ppm)	37.55	0.0007 (ppm)	-20.9026
11/1/2017 21:56:22	FBLK-302021	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	3.9640
11/1/2017 21:56:22	FBLK-302021	Sb (217.582 nm)	-0.0020 u (ppm)	44.58	-0.0020 (ppm)	1.3152
11/1/2017 21:56:22	FBLK-302021	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	5.1854
11/1/2017 21:56:22	FBLK-302021	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.1251
11/1/2017 21:56:22	FBLK-302021	Sr (216.596 nm)	0.0003 (ppm)	57.11	0.0003 (ppm)	2.6020
11/1/2017 21:56:22	FBLK-302021	Ti (336.122 nm)	0.0004 (ppm)	4.41	0.0004 (ppm)	-332.6218
11/1/2017 21:56:22	FBLK-302021	Tl (351.923 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	12.1701
11/1/2017 21:56:22	FBLK-302021	V (292.401 nm)	-0.0002 u (ppm)	16.75	-0.0002 (ppm)	103.6015
11/1/2017 21:56:22	FBLK-302021	Y (360.074 nm)	1.01 (Ratio)	0.80	1.01 (Ratio)	944209.68
11/1/2017 21:56:22	FBLK-302021	Y_R (360.074 nm)	1.01 (Ratio)	0.80	1.01 (Ratio)	944430.24
11/1/2017 21:56:22	FBLK-302021	Zn (213.857 nm)	0.0160 (ppm)	0.38	0.0160 (ppm)	433.1049
11/1/2017 21:59:41	PBW-302021	Ag (328.068 nm)	0.0001 (ppm)	15.68	0.0001 (ppm)	-117.5262

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 21:59:41	PBW-302021	Al (394.401 nm)	0.0021 (ppm)	21.24	0.0021 (ppm)	111.7866
11/1/2017 21:59:41	PBW-302021	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.8853
11/1/2017 21:59:41	PBW-302021	B (249.772 nm)	-0.0006 u (ppm)	38.49	-0.0006 (ppm)	73.5501
11/1/2017 21:59:41	PBW-302021	Ba (230.424 nm)	-0.0001 u (ppm)	39.59	-0.0001 (ppm)	4.3807
11/1/2017 21:59:41	PBW-302021	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-510.1836
11/1/2017 21:59:41	PBW-302021	Ca (227.547 nm)	-0.0332 u (ppm)	> 100.00	-0.0332 (ppm)	4.2218
11/1/2017 21:59:41	PBW-302021	Cd (214.439 nm)	-0.0002 u (ppm)	35.55	-0.0002 (ppm)	8.9770
11/1/2017 21:59:41	PBW-302021	Co (230.786 nm)	-0.0002 u (ppm)	56.68	-0.0002 (ppm)	-3.1682
11/1/2017 21:59:41	PBW-302021	Cr (267.716 nm)	-0.0001 u (ppm)	21.24	-0.0001 (ppm)	-4.5317
11/1/2017 21:59:41	PBW-302021	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	25.5080
11/1/2017 21:59:41	PBW-302021	Fe (234.350 nm)	-0.0051 u (ppm)	1.85	-0.0051 (ppm)	13.2708
11/1/2017 21:59:41	PBW-302021	K (766.491 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	61.6981
11/1/2017 21:59:41	PBW-302021	Mg (279.078 nm)	0.0024 (ppm)	47.85	0.0024 (ppm)	-2.1505
11/1/2017 21:59:41	PBW-302021	Mn (257.610 nm)	0.0211 (ppm)	31.35	0.0211 (ppm)	6866.2679
11/1/2017 21:59:41	PBW-302021	Mo (202.032 nm)	-0.0007 u (ppm)	24.39	-0.0007 (ppm)	8.9935
11/1/2017 21:59:41	PBW-302021	Na (588.995 nm)	0.0093 (ppm)	11.05	0.0093 (ppm)	-5550.6600
11/1/2017 21:59:41	PBW-302021	Ni (230.299 nm)	0.0015 (ppm)	39.42	0.0015 (ppm)	-15.6685
11/1/2017 21:59:41	PBW-302021	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	3.9717
11/1/2017 21:59:41	PBW-302021	Sb (217.582 nm)	-0.0026 u (ppm)	47.85	-0.0026 (ppm)	0.4332
11/1/2017 21:59:41	PBW-302021	Se (196.026 nm)	0.0020 u (ppm)	95.24	0.0020 (ppm)	7.2262
11/1/2017 21:59:41	PBW-302021	Sn (189.925 nm)	0.0008 (ppm)	89.85	0.0008 (ppm)	0.8582
11/1/2017 21:59:41	PBW-302021	Sr (216.596 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.0285
11/1/2017 21:59:41	PBW-302021	Ti (336.122 nm)	0.0003 (ppm)	29.74	0.0003 (ppm)	-358.9324
11/1/2017 21:59:41	PBW-302021	Tl (351.923 nm)	-0.0022 u (ppm)	51.20	-0.0022 (ppm)	8.3521
11/1/2017 21:59:41	PBW-302021	V (292.401 nm)	-0.0002 u (ppm)	63.10	-0.0002 (ppm)	104.3345
11/1/2017 21:59:41	PBW-302021	Y (360.074 nm)	1.01 (Ratio)	0.80	1.01 (Ratio)	943292.02
11/1/2017 21:59:41	PBW-302021	Y_R (360.074 nm)	1.01 (Ratio)	0.80	1.01 (Ratio)	943545.78
11/1/2017 21:59:41	PBW-302021	Zn (213.857 nm)	0.0019 (ppm)	3.58	0.0019 (ppm)	24.3849
11/1/2017 22:03:00	LCSW-302021	Ag (328.068 nm)	0.0505 (ppm)	0.63	0.0505 (ppm)	3584.2909
11/1/2017 22:03:00	LCSW-302021	Al (394.401 nm)	1.8975 (ppm)	0.70	1.8975 (ppm)	25422.0620
11/1/2017 22:03:00	LCSW-302021	As (188.980 nm)	0.0409 (ppm)	13.16	0.0409 (ppm)	34.9626
11/1/2017 22:03:00	LCSW-302021	B (249.772 nm)	0.9810 (ppm)	0.53	0.9810 (ppm)	28202.6783
11/1/2017 22:03:00	LCSW-302021	Ba (230.424 nm)	2.1172 (ppm)	0.45	2.1172 (ppm)	74105.5463
11/1/2017 22:03:00	LCSW-302021	Be (313.107 nm)	0.0514 (ppm)	0.55	0.0514 (ppm)	77521.7864
11/1/2017 22:03:00	LCSW-302021	Ca (227.547 nm)	1.9260 (ppm)	1.90	1.9260 (ppm)	119.2802
11/1/2017 22:03:00	LCSW-302021	Cd (214.439 nm)	0.0524 (ppm)	0.64	0.0524 (ppm)	1203.8938
11/1/2017 22:03:00	LCSW-302021	Co (230.786 nm)	0.5223 (ppm)	0.45	0.5223 (ppm)	5374.5711
11/1/2017 22:03:00	LCSW-302021	Cr (267.716 nm)	0.2025 (ppm)	0.64	0.2025 (ppm)	10559.2243
11/1/2017 22:03:00	LCSW-302021	Cu (327.395 nm)	0.2510 (ppm)	0.81	0.2510 (ppm)	15787.2944
11/1/2017 22:03:00	LCSW-302021	Fe (234.350 nm)	0.9943 (ppm)	0.53	0.9943 (ppm)	11624.0959
11/1/2017 22:03:00	LCSW-302021	K (766.491 nm)	19.6785 (ppm)	0.74	19.6785 (ppm)	60816.0930
11/1/2017 22:03:00	LCSW-302021	Mg (279.078 nm)	2.0324 (ppm)	0.60	2.0324 (ppm)	4093.9266
11/1/2017 22:03:00	LCSW-302021	Mn (257.610 nm)	0.5195 (ppm)	0.28	0.5195 (ppm)	168107.1950
11/1/2017 22:03:00	LCSW-302021	Mo (202.032 nm)	0.4843 (ppm)	0.51	0.4843 (ppm)	5198.4161
11/1/2017 22:03:00	LCSW-302021	Na (588.995 nm)	20.1148 (ppm)	0.86	20.1148 (ppm)	917023.6962
11/1/2017 22:03:00	LCSW-302021	Ni (230.299 nm)	0.5221 (ppm)	0.19	0.5221 (ppm)	3596.7477
11/1/2017 22:03:00	LCSW-302021	Pb (220.353 nm)	0.5222 (ppm)	0.90	0.5222 (ppm)	1171.3973
11/1/2017 22:03:00	LCSW-302021	Sb (217.582 nm)	0.5027 (ppm)	0.32	0.5027 (ppm)	721.3504
11/1/2017 22:03:00	LCSW-302021	Se (196.026 nm)	1.0521 (ppm)	0.61	1.0521 (ppm)	924.5613
11/1/2017 22:03:00	LCSW-302021	Sn (189.925 nm)	5.1529 (ppm)	0.42	5.1529 (ppm)	6565.8890
11/1/2017 22:03:00	LCSW-302021	Sr (216.596 nm)	2.0760 (ppm)	0.68	2.0760 (ppm)	30966.4490

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:03:00	LCSW-302021	Ti (336.122 nm)	0.5025 (ppm)	0.56	0.5025 (ppm)	109768.5709
11/1/2017 22:03:00	LCSW-302021	Tl (351.923 nm)	1.9199 (ppm)	0.42	1.9199 (ppm)	5465.4192
11/1/2017 22:03:00	LCSW-302021	V (292.401 nm)	0.5096 (ppm)	0.64	0.5096 (ppm)	18454.9889
11/1/2017 22:03:00	LCSW-302021	Y (360.074 nm)	0.98 (Ratio)	0.94	0.98 (Ratio)	914056.28
11/1/2017 22:03:00	LCSW-302021	Y_R (360.074 nm)	0.98 (Ratio)	0.94	0.98 (Ratio)	914438.63
11/1/2017 22:03:00	LCSW-302021	Zn (213.857 nm)	0.5158 (ppm)	0.86	0.5158 (ppm)	14954.9721
11/1/2017 22:06:18	R1710088-001	Ag (328.068 nm)	0.0002 (ppm)	55.07	0.0002 (ppm)	-109.8860
11/1/2017 22:06:18	R1710088-001	Al (394.401 nm)	0.0393 (ppm)	2.72	0.0393 (ppm)	607.7402
11/1/2017 22:06:18	R1710088-001	As (188.980 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-3.3831
11/1/2017 22:06:18	R1710088-001	B (249.772 nm)	1.6016 (ppm)	0.51	1.6016 (ppm)	45987.5133
11/1/2017 22:06:18	R1710088-001	Ba (230.424 nm)	0.0073 (ppm)	0.66	0.0073 (ppm)	262.4007
11/1/2017 22:06:18	R1710088-001	Be (313.107 nm)	0.0000 (ppm)	67.99	0.0000 (ppm)	-538.8777
11/1/2017 22:06:18	R1710088-001	Ca (227.547 nm)	675.2374 o (ppm)	0.62	675.2374 (ppm)	39661.2768
11/1/2017 22:06:18	R1710088-001	Cd (214.439 nm)	0.0001 (ppm)	50.14	0.0001 (ppm)	15.1466
11/1/2017 22:06:18	R1710088-001	Co (230.786 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-1.3592
11/1/2017 22:06:18	R1710088-001	Cr (267.716 nm)	0.0019 (ppm)	3.00	0.0019 (ppm)	99.4108
11/1/2017 22:06:18	R1710088-001	Cu (327.395 nm)	0.0002 (ppm)	14.33	0.0002 (ppm)	30.9912
11/1/2017 22:06:18	R1710088-001	Fe (234.350 nm)	0.0008 (ppm)	55.45	0.0008 (ppm)	81.4768
11/1/2017 22:06:18	R1710088-001	K (766.491 nm)	18.4678 (ppm)	0.65	18.4678 (ppm)	57078.0092
11/1/2017 22:06:18	R1710088-001	Mg (279.078 nm)	181.2689 o (ppm)	0.48	181.2689 (ppm)	365754.2254
11/1/2017 22:06:18	R1710088-001	Mn (257.610 nm)	0.0269 (ppm)	14.89	0.0269 (ppm)	8720.2132
11/1/2017 22:06:18	R1710088-001	Mo (202.032 nm)	0.0003 (ppm)	89.09	0.0003 (ppm)	19.9515
11/1/2017 22:06:18	R1710088-001	Na (588.995 nm)	322.1792 o (ppm)	0.68	322.1792 (ppm)	14777792.3109
11/1/2017 22:06:18	R1710088-001	Ni (230.299 nm)	-0.0043 u (ppm)	8.00	-0.0043 (ppm)	-56.0338
11/1/2017 22:06:18	R1710088-001	Pb (220.353 nm)	-0.0023 u (ppm)	84.07	-0.0023 (ppm)	0.4353
11/1/2017 22:06:18	R1710088-001	Sb (217.582 nm)	-0.0032 u (ppm)	49.34	-0.0032 (ppm)	-0.3688
11/1/2017 22:06:18	R1710088-001	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	5.1132
11/1/2017 22:06:18	R1710088-001	Sn (189.925 nm)	-0.0035 u (ppm)	12.55	-0.0035 (ppm)	-4.5896
11/1/2017 22:06:18	R1710088-001	Sr (216.596 nm)	11.8557 o (ppm)	1.59	11.8557 (ppm)	176854.3881
11/1/2017 22:06:18	R1710088-001	Ti (336.122 nm)	0.0042 (ppm)	0.39	0.0042 (ppm)	502.0528
11/1/2017 22:06:18	R1710088-001	Tl (351.923 nm)	0.0168 (ppm)	20.17	0.0168 (ppm)	62.3570
11/1/2017 22:06:18	R1710088-001	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	110.1129
11/1/2017 22:06:18	R1710088-001	Y (360.074 nm)	0.85 (Ratio)	0.68	0.85 (Ratio)	799613.57
11/1/2017 22:06:18	R1710088-001	Y_R (360.074 nm)	0.85 (Ratio)	0.68	0.85 (Ratio)	800199.72
11/1/2017 22:06:18	R1710088-001	Zn (213.857 nm)	0.0066 (ppm)	0.83	0.0066 (ppm)	159.8374
11/1/2017 22:09:38	R1710088-002	Ag (328.068 nm)	0.0001 (ppm)	28.26	0.0001 (ppm)	-115.9566
11/1/2017 22:09:38	R1710088-002	Al (394.401 nm)	0.0359 (ppm)	2.67	0.0359 (ppm)	562.5188
11/1/2017 22:09:38	R1710088-002	As (188.980 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	-4.1636
11/1/2017 22:09:38	R1710088-002	B (249.772 nm)	1.0817 (ppm)	0.69	1.0817 (ppm)	31089.8116
11/1/2017 22:09:38	R1710088-002	Ba (230.424 nm)	0.0106 (ppm)	2.65	0.0106 (ppm)	377.7208
11/1/2017 22:09:38	R1710088-002	Be (313.107 nm)	0.0000 (ppm)	19.84	0.0000 (ppm)	-551.1103
11/1/2017 22:09:38	R1710088-002	Ca (227.547 nm)	529.3560 o (ppm)	0.90	529.3560 (ppm)	31094.0001
11/1/2017 22:09:38	R1710088-002	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	14.0420
11/1/2017 22:09:38	R1710088-002	Co (230.786 nm)	-0.0002 u (ppm)	18.55	-0.0002 (ppm)	-3.3103
11/1/2017 22:09:38	R1710088-002	Cr (267.716 nm)	0.0006 (ppm)	10.93	0.0006 (ppm)	31.3957
11/1/2017 22:09:38	R1710088-002	Cu (327.395 nm)	0.0002 (ppm)	51.87	0.0002 (ppm)	32.8605
11/1/2017 22:09:38	R1710088-002	Fe (234.350 nm)	0.0003 (ppm)	86.30	0.0003 (ppm)	76.4481
11/1/2017 22:09:38	R1710088-002	K (766.491 nm)	12.7230 (ppm)	0.97	12.7230 (ppm)	39340.4722
11/1/2017 22:09:38	R1710088-002	Mg (279.078 nm)	151.3790 o (ppm)	0.59	151.3790 (ppm)	305442.8411
11/1/2017 22:09:38	R1710088-002	Mn (257.610 nm)	0.0306 (ppm)	14.35	0.0306 (ppm)	9945.4590
11/1/2017 22:09:38	R1710088-002	Mo (202.032 nm)	-0.0007 u (ppm)	27.17	-0.0007 (ppm)	9.3809

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:09:38	R1710088-002	Na (588.995 nm)	285.2414 o (ppm)	0.97	285.2414 (ppm)	13082836.5661
11/1/2017 22:09:38	R1710088-002	Ni (230.299 nm)	-0.0036 u (ppm)	31.86	-0.0036 (ppm)	-50.7514
11/1/2017 22:09:38	R1710088-002	Pb (220.353 nm)	-0.0025 u (ppm)	22.83	-0.0025 (ppm)	0.1142
11/1/2017 22:09:38	R1710088-002	Sb (217.582 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	2.6538
11/1/2017 22:09:38	R1710088-002	Se (196.026 nm)	-0.0048 u (ppm)	52.03	-0.0048 (ppm)	1.3173
11/1/2017 22:09:38	R1710088-002	Sn (189.925 nm)	-0.0020 u (ppm)	30.71	-0.0020 (ppm)	-2.6608
11/1/2017 22:09:38	R1710088-002	Sr (216.596 nm)	11.9715 o (ppm)	2.12	11.9715 (ppm)	178581.4901
11/1/2017 22:09:38	R1710088-002	Ti (336.122 nm)	0.0032 (ppm)	0.44	0.0032 (ppm)	272.6275
11/1/2017 22:09:38	R1710088-002	Tl (351.923 nm)	0.0122 (ppm)	18.49	0.0122 (ppm)	49.1732
11/1/2017 22:09:38	R1710088-002	V (292.401 nm)	-0.0001 u (ppm)	69.83	-0.0001 (ppm)	104.8998
11/1/2017 22:09:38	R1710088-002	Y (360.074 nm)	0.87 (Ratio)	0.98	0.87 (Ratio)	811972.08
11/1/2017 22:09:38	R1710088-002	Y_R (360.074 nm)	0.87 (Ratio)	0.98	0.87 (Ratio)	812486.72
11/1/2017 22:09:38	R1710088-002	Zn (213.857 nm)	0.0027 (ppm)	3.56	0.0027 (ppm)	47.7247
11/1/2017 22:12:56	Continuing Calibration Verification1	Ag (328.068 nm)	0.4922 (ppm)	0.39	0.4922 (ppm)	36030.3778
11/1/2017 22:12:56	Continuing Calibration Verification1	Al (394.401 nm)	9.6441 (ppm)	0.43	9.6441 (ppm)	128865.2852
11/1/2017 22:12:56	Continuing Calibration Verification1	As (188.980 nm)	0.9625 (ppm)	0.69	0.9625 (ppm)	887.9391
11/1/2017 22:12:56	Continuing Calibration Verification1	B (249.772 nm)	2.4210 (ppm)	0.32	2.4210 (ppm)	69468.5951
11/1/2017 22:12:56	Continuing Calibration Verification1	Ba (230.424 nm)	10.2824 (ppm)	0.16	10.2824 (ppm)	359866.7094
11/1/2017 22:12:56	Continuing Calibration Verification1	Be (313.107 nm)	0.2545 (ppm)	0.15	0.2545 (ppm)	385488.7221
11/1/2017 22:12:56	Continuing Calibration Verification1	Ca (227.547 nm)	24.5474 (ppm)	0.96	24.5474 (ppm)	1447.7782
11/1/2017 22:12:56	Continuing Calibration Verification1	Cd (214.439 nm)	0.4946 (ppm)	0.24	0.4946 (ppm)	11260.4478
11/1/2017 22:12:56	Continuing Calibration Verification1	Co (230.786 nm)	2.5844 (ppm)	0.31	2.5844 (ppm)	26597.5396
11/1/2017 22:12:56	Continuing Calibration Verification1	Cr (267.716 nm)	0.5036 (ppm)	0.16	0.5036 (ppm)	26265.7709
11/1/2017 22:12:56	Continuing Calibration Verification1	Cu (327.395 nm)	1.2212 (ppm)	0.74	1.2212 (ppm)	76722.2085
11/1/2017 22:12:56	Continuing Calibration Verification1	Fe (234.350 nm)	4.8415 (ppm)	0.31	4.8415 (ppm)	56316.3561
11/1/2017 22:12:56	Continuing Calibration Verification1	K (766.491 nm)	25.2205 (ppm)	0.54	25.2205 (ppm)	77927.3943
11/1/2017 22:12:56	Continuing Calibration Verification1	Mg (279.078 nm)	24.9243 (ppm)	0.30	24.9243 (ppm)	50284.7487
11/1/2017 22:12:56	Continuing Calibration Verification1	Mn (257.610 nm)	0.7616 (ppm)	0.18	0.7616 (ppm)	246435.4602
11/1/2017 22:12:56	Continuing Calibration Verification1	Mo (202.032 nm)	2.3987 (ppm)	0.22	2.3987 (ppm)	25682.1673
11/1/2017 22:12:56	Continuing Calibration Verification1	Na (588.995 nm)	25.4367 (ppm)	0.73	25.4367 (ppm)	1161228.5488
11/1/2017 22:12:56	Continuing Calibration Verification1	Ni (230.299 nm)	2.0284 (ppm)	0.25	2.0284 (ppm)	14049.5622
11/1/2017 22:12:56	Continuing Calibration Verification1	Pb (220.353 nm)	0.4971 (ppm)	0.34	0.4971 (ppm)	1115.2003
11/1/2017 22:12:56	Continuing Calibration Verification1	Sb (217.582 nm)	4.9240 (ppm)	0.43	4.9240 (ppm)	7028.6604
11/1/2017 22:12:56	Continuing Calibration Verification1	Se (196.026 nm)	0.4833 (ppm)	0.57	0.4833 (ppm)	427.6875
11/1/2017 22:12:56	Continuing Calibration Verification1	Sn (189.925 nm)	5.0226 (ppm)	0.36	5.0226 (ppm)	6399.7603
11/1/2017 22:12:56	Continuing Calibration Verification1	Sr (216.596 nm)	2.4972 (ppm)	0.26	2.4972 (ppm)	37250.4533
11/1/2017 22:12:56	Continuing Calibration Verification1	Ti (336.122 nm)	2.4957 (ppm)	0.61	2.4957 (ppm)	546889.5541
11/1/2017 22:12:56	Continuing Calibration Verification1	Tl (351.923 nm)	0.9982 (ppm)	0.54	0.9982 (ppm)	2848.4589
11/1/2017 22:12:56	Continuing Calibration Verification1	V (292.401 nm)	2.5277 (ppm)	0.25	2.5277 (ppm)	91099.2125
11/1/2017 22:12:56	Continuing Calibration Verification1	Y (360.074 nm)	0.96 (Ratio)	0.88	0.96 (Ratio)	899441.25
11/1/2017 22:12:56	Continuing Calibration Verification1	Y_R (360.074 nm)	0.96 (Ratio)	0.88	0.96 (Ratio)	899748.68
11/1/2017 22:12:56	Continuing Calibration Verification1	Zn (213.857 nm)	0.9969 (ppm)	0.22	0.9969 (ppm)	28933.6600
11/1/2017 22:16:14	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002 (ppm)	35.57	0.0002 (ppm)	-114.5542
11/1/2017 22:16:14	Continuing Calibration Blank1	Al (394.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	79.9885
11/1/2017 22:16:14	Continuing Calibration Blank1	As (188.980 nm)	0.0048 (ppm)	31.82	0.0048 (ppm)	1.5498
11/1/2017 22:16:14	Continuing Calibration Blank1	B (249.772 nm)	0.0018 (ppm)	35.86	0.0018 (ppm)	142.1031
11/1/2017 22:16:14	Continuing Calibration Blank1	Ba (230.424 nm)	0.0001 (ppm)	44.28	0.0001 (ppm)	12.5774
11/1/2017 22:16:14	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-502.9742
11/1/2017 22:16:14	Continuing Calibration Blank1	Ca (227.547 nm)	-0.0136 u (ppm)	> 100.00	-0.0136 (ppm)	5.3693
11/1/2017 22:16:14	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	42.58	0.0001 (ppm)	14.9460
11/1/2017 22:16:14	Continuing Calibration Blank1	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.2760

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:16:14	Continuing Calibration Blank1	Cr (267.716 nm)	-0.0001 u (ppm)	80.42	-0.0001 (ppm)	-4.4423
11/1/2017 22:16:14	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	19.7354
11/1/2017 22:16:14	Continuing Calibration Blank1	Fe (234.350 nm)	0.0002 (ppm)	50.15	0.0002 (ppm)	75.1194
11/1/2017 22:16:14	Continuing Calibration Blank1	K (766.491 nm)	0.0185 (ppm)	2.24	0.0185 (ppm)	114.6910
11/1/2017 22:16:14	Continuing Calibration Blank1	Mg (279.078 nm)	0.0014 (ppm)	> 100.00	0.0014 (ppm)	-4.2091
11/1/2017 22:16:14	Continuing Calibration Blank1	Mn (257.610 nm)	0.0057 (ppm)	30.21	0.0057 (ppm)	1875.6147
11/1/2017 22:16:14	Continuing Calibration Blank1	Mo (202.032 nm)	0.0025 (ppm)	14.30	0.0025 (ppm)	43.2719
11/1/2017 22:16:14	Continuing Calibration Blank1	Na (588.995 nm)	0.0107 (ppm)	6.64	0.0107 (ppm)	-5488.9238
11/1/2017 22:16:14	Continuing Calibration Blank1	Ni (230.299 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-23.3286
11/1/2017 22:16:14	Continuing Calibration Blank1	Pb (220.353 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	7.4582
11/1/2017 22:16:14	Continuing Calibration Blank1	Sb (217.582 nm)	-0.0014 u (ppm)	41.97	-0.0014 (ppm)	2.0947
11/1/2017 22:16:14	Continuing Calibration Blank1	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	4.4924
11/1/2017 22:16:14	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.3288
11/1/2017 22:16:14	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 (ppm)	38.90	0.0001 (ppm)	0.4900
11/1/2017 22:16:14	Continuing Calibration Blank1	Ti (336.122 nm)	0.0007 (ppm)	2.53	0.0007 (ppm)	-266.4401
11/1/2017 22:16:14	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0031 u (ppm)	91.13	-0.0031 (ppm)	5.8550
11/1/2017 22:16:14	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u (ppm)	95.81	-0.0001 (ppm)	107.0708
11/1/2017 22:16:14	Continuing Calibration Blank1	Y (360.074 nm)	1.01 (Ratio)	0.99	1.01 (Ratio)	943045.21
11/1/2017 22:16:14	Continuing Calibration Blank1	Y_R (360.074 nm)	1.01 (Ratio)	1.00	1.01 (Ratio)	943096.78
11/1/2017 22:16:14	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-27.2149
11/1/2017 22:19:33	R1710088-002S	Ag (328.068 nm)	0.0548 (ppm)	0.76	0.0548 (ppm)	3901.8710
11/1/2017 22:19:33	R1710088-002S	Al (394.401 nm)	2.3170 (ppm)	0.82	2.3170 (ppm)	31022.8081
11/1/2017 22:19:33	R1710088-002S	As (188.980 nm)	0.0460 (ppm)	5.57	0.0460 (ppm)	39.6759
11/1/2017 22:19:33	R1710088-002S	B (249.772 nm)	2.1296 (ppm)	0.64	2.1296 (ppm)	61120.0021
11/1/2017 22:19:33	R1710088-002S	Ba (230.424 nm)	2.0382 (ppm)	0.36	2.0382 (ppm)	71339.7500
11/1/2017 22:19:33	R1710088-002S	Be (313.107 nm)	0.0499 (ppm)	0.76	0.0499 (ppm)	75121.9925
11/1/2017 22:19:33	R1710088-002S	Ca (227.547 nm)	527.7871 o (ppm)	1.02	527.7871 (ppm)	31001.8674
11/1/2017 22:19:33	R1710088-002S	Cd (214.439 nm)	0.0472 (ppm)	1.08	0.0472 (ppm)	1086.1992
11/1/2017 22:19:33	R1710088-002S	Co (230.786 nm)	0.4906 (ppm)	0.74	0.4906 (ppm)	5047.8841
11/1/2017 22:19:33	R1710088-002S	Cr (267.716 nm)	0.1943 (ppm)	0.72	0.1943 (ppm)	10130.6950
11/1/2017 22:19:33	R1710088-002S	Cu (327.395 nm)	0.2722 (ppm)	0.73	0.2722 (ppm)	17119.9541
11/1/2017 22:19:33	R1710088-002S	Fe (234.350 nm)	0.9532 (ppm)	0.67	0.9532 (ppm)	11146.0015
11/1/2017 22:19:33	R1710088-002S	K (766.491 nm)	37.5061 (ppm)	0.79	37.5061 (ppm)	115860.1546
11/1/2017 22:19:33	R1710088-002S	Mg (279.078 nm)	150.7718 o (ppm)	0.67	150.7718 (ppm)	304217.7118
11/1/2017 22:19:33	R1710088-002S	Mn (257.610 nm)	0.5191 (ppm)	0.17	0.5191 (ppm)	167974.9228
11/1/2017 22:19:33	R1710088-002S	Mo (202.032 nm)	0.4809 (ppm)	0.67	0.4809 (ppm)	5161.9526
11/1/2017 22:19:33	R1710088-002S	Na (588.995 nm)	301.3647 o (ppm)	1.16	301.3647 (ppm)	13822682.7569
11/1/2017 22:19:33	R1710088-002S	Ni (230.299 nm)	0.4805 (ppm)	0.75	0.4805 (ppm)	3308.0299
11/1/2017 22:19:33	R1710088-002S	Pb (220.353 nm)	0.4882 (ppm)	0.64	0.4882 (ppm)	1095.3780
11/1/2017 22:19:33	R1710088-002S	Sb (217.582 nm)	0.5400 (ppm)	1.15	0.5400 (ppm)	774.4990
11/1/2017 22:19:33	R1710088-002S	Se (196.026 nm)	1.0689 (ppm)	0.78	1.0689 (ppm)	939.2034
11/1/2017 22:19:33	R1710088-002S	Sn (189.925 nm)	4.9948 (ppm)	0.69	4.9948 (ppm)	6364.4278
11/1/2017 22:19:33	R1710088-002S	Sr (216.596 nm)	13.7015 o (ppm)	0.11	13.7015 (ppm)	204387.5872
11/1/2017 22:19:33	R1710088-002S	Ti (336.122 nm)	0.5118 (ppm)	0.73	0.5118 (ppm)	111825.0178
11/1/2017 22:19:33	R1710088-002S	Tl (351.923 nm)	2.2296 o (ppm)	0.44	2.2296 (ppm)	6344.6491
11/1/2017 22:19:33	R1710088-002S	V (292.401 nm)	0.5120 (ppm)	0.71	0.5120 (ppm)	18541.3345
11/1/2017 22:19:33	R1710088-002S	Y (360.074 nm)	0.87 (Ratio)	1.07	0.87 (Ratio)	811562.75
11/1/2017 22:19:33	R1710088-002S	Y_R (360.074 nm)	0.87 (Ratio)	1.07	0.87 (Ratio)	811965.53
11/1/2017 22:19:33	R1710088-002S	Zn (213.857 nm)	0.5172 (ppm)	0.61	0.5172 (ppm)	14995.9373
11/1/2017 22:22:52	R1710088-002SD	Ag (328.068 nm)	0.0548 (ppm)	0.19	0.0548 (ppm)	3897.7440
11/1/2017 22:22:52	R1710088-002SD	Al (394.401 nm)	2.3175 (ppm)	0.20	2.3175 (ppm)	31030.5555

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:22:52	R1710088-002SD	As (188.980 nm)	0.0419 (ppm)	8.52	0.0419 (ppm)	35.8800
11/1/2017 22:22:52	R1710088-002SD	B (249.772 nm)	2.1390 (ppm)	0.01	2.1390 (ppm)	61389.0060
11/1/2017 22:22:52	R1710088-002SD	Ba (230.424 nm)	2.0303 (ppm)	0.19	2.0303 (ppm)	71062.2571
11/1/2017 22:22:52	R1710088-002SD	Be (313.107 nm)	0.0496 (ppm)	0.01	0.0496 (ppm)	74761.1885
11/1/2017 22:22:52	R1710088-002SD	Ca (227.547 nm)	532.8782 o (ppm)	0.30	532.8782 (ppm)	31300.8521
11/1/2017 22:22:52	R1710088-002SD	Cd (214.439 nm)	0.0472 (ppm)	0.63	0.0472 (ppm)	1086.3870
11/1/2017 22:22:52	R1710088-002SD	Co (230.786 nm)	0.4882 (ppm)	0.23	0.4882 (ppm)	5022.9842
11/1/2017 22:22:52	R1710088-002SD	Cr (267.716 nm)	0.1936 (ppm)	0.11	0.1936 (ppm)	10095.1386
11/1/2017 22:22:52	R1710088-002SD	Cu (327.395 nm)	0.2718 (ppm)	0.42	0.2718 (ppm)	17092.6263
11/1/2017 22:22:52	R1710088-002SD	Fe (234.350 nm)	0.9502 (ppm)	0.07	0.9502 (ppm)	11111.5736
11/1/2017 22:22:52	R1710088-002SD	K (766.491 nm)	37.7115 (ppm)	0.48	37.7115 (ppm)	116494.1044
11/1/2017 22:22:52	R1710088-002SD	Mg (279.078 nm)	152.2720 o (ppm)	0.12	152.2720 (ppm)	307244.6932
11/1/2017 22:22:52	R1710088-002SD	Mn (257.610 nm)	0.5161 (ppm)	0.70	0.5161 (ppm)	166998.0446
11/1/2017 22:22:52	R1710088-002SD	Mo (202.032 nm)	0.4786 (ppm)	0.19	0.4786 (ppm)	5138.0141
11/1/2017 22:22:52	R1710088-002SD	Na (588.995 nm)	303.4158 o (ppm)	0.61	303.4158 (ppm)	13916800.4645
11/1/2017 22:22:52	R1710088-002SD	Ni (230.299 nm)	0.4772 (ppm)	0.27	0.4772 (ppm)	3285.1603
11/1/2017 22:22:52	R1710088-002SD	Pb (220.353 nm)	0.4839 (ppm)	0.95	0.4839 (ppm)	1085.7686
11/1/2017 22:22:52	R1710088-002SD	Sb (217.582 nm)	0.5429 (ppm)	0.67	0.5429 (ppm)	778.6033
11/1/2017 22:22:52	R1710088-002SD	Se (196.026 nm)	1.0509 (ppm)	0.50	1.0509 (ppm)	923.4953
11/1/2017 22:22:52	R1710088-002SD	Sn (189.925 nm)	4.9505 (ppm)	0.14	4.9505 (ppm)	6307.9040
11/1/2017 22:22:52	R1710088-002SD	Sr (216.596 nm)	13.7708 o (ppm)	0.41	13.7708 (ppm)	205421.8929
11/1/2017 22:22:52	R1710088-002SD	Ti (336.122 nm)	0.5097 (ppm)	0.11	0.5097 (ppm)	111367.8304
11/1/2017 22:22:52	R1710088-002SD	Tl (351.923 nm)	2.2294 o (ppm)	0.22	2.2294 (ppm)	6344.0568
11/1/2017 22:22:52	R1710088-002SD	V (292.401 nm)	0.5097 (ppm)	0.10	0.5097 (ppm)	18459.0520
11/1/2017 22:22:52	R1710088-002SD	Y (360.074 nm)	0.87 (Ratio)	0.35	0.87 (Ratio)	819132.97
11/1/2017 22:22:52	R1710088-002SD	Y_R (360.074 nm)	0.88 (Ratio)	0.35	0.88 (Ratio)	819578.57
11/1/2017 22:22:52	R1710088-002SD	Zn (213.857 nm)	0.5135 (ppm)	0.16	0.5135 (ppm)	14887.9550
11/1/2017 22:26:11	R1710088-002A	Ag (328.068 nm)	0.0520 (ppm)	0.78	0.0520 (ppm)	3697.3296
11/1/2017 22:26:11	R1710088-002A	Al (394.401 nm)	2.2440 (ppm)	0.44	2.2440 (ppm)	30048.7035
11/1/2017 22:26:11	R1710088-002A	As (188.980 nm)	0.0413 (ppm)	2.17	0.0413 (ppm)	35.2917
11/1/2017 22:26:11	R1710088-002A	B (249.772 nm)	2.2532 (ppm)	0.31	2.2532 (ppm)	64660.2439
11/1/2017 22:26:11	R1710088-002A	Ba (230.424 nm)	1.9377 (ppm)	0.22	1.9377 (ppm)	67822.8114
11/1/2017 22:26:11	R1710088-002A	Be (313.107 nm)	0.0474 (ppm)	0.31	0.0474 (ppm)	71382.1069
11/1/2017 22:26:11	R1710088-002A	Ca (227.547 nm)	516.4371 o (ppm)	0.70	516.4371 (ppm)	30335.3034
11/1/2017 22:26:11	R1710088-002A	Cd (214.439 nm)	0.0452 (ppm)	0.62	0.0452 (ppm)	1040.9420
11/1/2017 22:26:11	R1710088-002A	Co (230.786 nm)	0.4675 (ppm)	0.37	0.4675 (ppm)	4810.3983
11/1/2017 22:26:11	R1710088-002A	Cr (267.716 nm)	0.1852 (ppm)	0.52	0.1852 (ppm)	9657.2959
11/1/2017 22:26:11	R1710088-002A	Cu (327.395 nm)	0.2590 (ppm)	0.78	0.2590 (ppm)	16291.6046
11/1/2017 22:26:11	R1710088-002A	Fe (234.350 nm)	0.9077 (ppm)	0.42	0.9077 (ppm)	10618.0947
11/1/2017 22:26:11	R1710088-002A	K (766.491 nm)	36.1427 (ppm)	0.38	36.1427 (ppm)	111650.5368
11/1/2017 22:26:11	R1710088-002A	Mg (279.078 nm)	147.3787 o (ppm)	0.39	147.3787 (ppm)	297371.1140
11/1/2017 22:26:11	R1710088-002A	Mn (257.610 nm)	0.5088 (ppm)	1.48	0.5088 (ppm)	164653.5386
11/1/2017 22:26:11	R1710088-002A	Mo (202.032 nm)	0.4606 (ppm)	0.50	0.4606 (ppm)	4944.6454
11/1/2017 22:26:11	R1710088-002A	Na (588.995 nm)	294.0730 o (ppm)	0.72	294.0730 (ppm)	13488089.2084
11/1/2017 22:26:11	R1710088-002A	Ni (230.299 nm)	0.4558 (ppm)	0.20	0.4558 (ppm)	3137.0562
11/1/2017 22:26:11	R1710088-002A	Pb (220.353 nm)	0.4646 (ppm)	0.17	0.4646 (ppm)	1042.8333
11/1/2017 22:26:11	R1710088-002A	Sb (217.582 nm)	0.5190 (ppm)	1.00	0.5190 (ppm)	744.5294
11/1/2017 22:26:11	R1710088-002A	Se (196.026 nm)	1.1882 o (ppm)	0.50	1.1882 (ppm)	1043.4404
11/1/2017 22:26:11	R1710088-002A	Sn (189.925 nm)	4.7632 (ppm)	0.27	4.7632 (ppm)	6069.2492
11/1/2017 22:26:11	R1710088-002A	Sr (216.596 nm)	13.3322 o (ppm)	0.11	13.3322 (ppm)	198878.9709
11/1/2017 22:26:11	R1710088-002A	Ti (336.122 nm)	0.4904 (ppm)	0.45	0.4904 (ppm)	107121.2139

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:26:11	R1710088-002A	Tl (351.923 nm)	2.1302 (ppm)	0.55	2.1302 (ppm)	6062.4678
11/1/2017 22:26:11	R1710088-002A	V (292.401 nm)	0.4874 (ppm)	0.31	0.4874 (ppm)	17654.9492
11/1/2017 22:26:11	R1710088-002A	Y (360.074 nm)	0.88 (Ratio)	0.67	0.88 (Ratio)	821385.14
11/1/2017 22:26:11	R1710088-002A	Y_R (360.074 nm)	0.88 (Ratio)	0.67	0.88 (Ratio)	821929.36
11/1/2017 22:26:11	R1710088-002A	Zn (213.857 nm)	0.4966 (ppm)	0.42	0.4966 (ppm)	14398.2790
11/1/2017 22:29:30	R1710088-002L	Ag (328.068 nm)	0.0002 (ppm)	10.00	0.0002 (ppm)	-114.5395
11/1/2017 22:29:30	R1710088-002L	Al (394.401 nm)	0.0196 (ppm)	0.70	0.0196 (ppm)	344.5406
11/1/2017 22:29:30	R1710088-002L	As (188.980 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	-1.1717
11/1/2017 22:29:30	R1710088-002L	B (249.772 nm)	0.2016 (ppm)	0.44	0.2016 (ppm)	5867.2039
11/1/2017 22:29:30	R1710088-002L	Ba (230.424 nm)	0.0022 (ppm)	0.61	0.0022 (ppm)	86.6456
11/1/2017 22:29:30	R1710088-002L	Be (313.107 nm)	0.0000 (ppm)	19.29	0.0000 (ppm)	-518.5191
11/1/2017 22:29:30	R1710088-002L	Ca (227.547 nm)	96.6712 o (ppm)	0.51	96.6712 (ppm)	5683.4442
11/1/2017 22:29:30	R1710088-002L	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	13.3016
11/1/2017 22:29:30	R1710088-002L	Co (230.786 nm)	-0.0005 u (ppm)	19.56	-0.0005 (ppm)	-5.9614
11/1/2017 22:29:30	R1710088-002L	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-0.8067
11/1/2017 22:29:30	R1710088-002L	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	20.1302
11/1/2017 22:29:30	R1710088-002L	Fe (234.350 nm)	-0.0024 u (ppm)	4.94	-0.0024 (ppm)	45.3928
11/1/2017 22:29:30	R1710088-002L	K (766.491 nm)	2.1426 (ppm)	0.59	2.1426 (ppm)	6672.8570
11/1/2017 22:29:30	R1710088-002L	Mg (279.078 nm)	29.1201 (ppm)	0.26	29.1201 (ppm)	58751.0645
11/1/2017 22:29:30	R1710088-002L	Mn (257.610 nm)	0.0097 (ppm)	19.15	0.0097 (ppm)	3164.0009
11/1/2017 22:29:30	R1710088-002L	Mo (202.032 nm)	0.0003 (ppm)	21.49	0.0003 (ppm)	20.2236
11/1/2017 22:29:30	R1710088-002L	Na (588.995 nm)	57.6787 o (ppm)	0.55	57.6787 (ppm)	2640712.0128
11/1/2017 22:29:30	R1710088-002L	Ni (230.299 nm)	-0.0008 u (ppm)	40.83	-0.0008 (ppm)	-31.4926
11/1/2017 22:29:30	R1710088-002L	Pb (220.353 nm)	-0.0014 u (ppm)	52.55	-0.0014 (ppm)	2.5677
11/1/2017 22:29:30	R1710088-002L	Sb (217.582 nm)	-0.0026 u (ppm)	> 100.00	-0.0026 (ppm)	0.3863
11/1/2017 22:29:30	R1710088-002L	Se (196.026 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	6.3406
11/1/2017 22:29:30	R1710088-002L	Sn (189.925 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-1.8321
11/1/2017 22:29:30	R1710088-002L	Sr (216.596 nm)	2.4757 (ppm)	0.95	2.4757 (ppm)	36929.0559
11/1/2017 22:29:30	R1710088-002L	Ti (336.122 nm)	0.0007 (ppm)	5.97	0.0007 (ppm)	-276.3820
11/1/2017 22:29:30	R1710088-002L	Tl (351.923 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	12.5776
11/1/2017 22:29:30	R1710088-002L	V (292.401 nm)	0.0002 (ppm)	60.33	0.0002 (ppm)	115.5869
11/1/2017 22:29:30	R1710088-002L	Y (360.074 nm)	0.96 (Ratio)	0.78	0.96 (Ratio)	896610.34
11/1/2017 22:29:30	R1710088-002L	Y_R (360.074 nm)	0.96 (Ratio)	0.78	0.96 (Ratio)	897055.32
11/1/2017 22:29:30	R1710088-002L	Zn (213.857 nm)	0.0010 (ppm)	5.47	0.0010 (ppm)	-1.7655
11/1/2017 22:32:49	R1710088-003	Ag (328.068 nm)	0.0003 (ppm)	11.69	0.0003 (ppm)	-106.2361
11/1/2017 22:32:49	R1710088-003	Al (394.401 nm)	0.0666 (ppm)	1.91	0.0666 (ppm)	972.3831
11/1/2017 22:32:49	R1710088-003	As (188.980 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.1258
11/1/2017 22:32:49	R1710088-003	B (249.772 nm)	0.8023 (ppm)	0.46	0.8023 (ppm)	23081.8286
11/1/2017 22:32:49	R1710088-003	Ba (230.424 nm)	0.3420 (ppm)	0.63	0.3420 (ppm)	11976.1688
11/1/2017 22:32:49	R1710088-003	Be (313.107 nm)	0.0000 (ppm)	14.12	0.0000 (ppm)	-540.9877
11/1/2017 22:32:49	R1710088-003	Ca (227.547 nm)	525.0730 o (ppm)	0.58	525.0730 (ppm)	30842.4707
11/1/2017 22:32:49	R1710088-003	Cd (214.439 nm)	0.0003 (ppm)	9.52	0.0003 (ppm)	20.3402
11/1/2017 22:32:49	R1710088-003	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.8167
11/1/2017 22:32:49	R1710088-003	Cr (267.716 nm)	0.0007 (ppm)	4.56	0.0007 (ppm)	35.3873
11/1/2017 22:32:49	R1710088-003	Cu (327.395 nm)	0.0005 (ppm)	24.95	0.0005 (ppm)	52.8725
11/1/2017 22:32:49	R1710088-003	Fe (234.350 nm)	31.6538 o (ppm)	0.41	31.6538 (ppm)	367798.2393
11/1/2017 22:32:49	R1710088-003	K (766.491 nm)	19.2368 (ppm)	0.46	19.2368 (ppm)	59452.4363
11/1/2017 22:32:49	R1710088-003	Mg (279.078 nm)	111.6212 o (ppm)	0.43	111.6212 (ppm)	225220.2964
11/1/2017 22:32:49	R1710088-003	Mn (257.610 nm)	1.0572 (ppm)	0.47	1.0572 (ppm)	342065.7395
11/1/2017 22:32:49	R1710088-003	Mo (202.032 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	19.6368
11/1/2017 22:32:49	R1710088-003	Na (588.995 nm)	454.0209 o (ppm)	0.72	454.0209 (ppm)	20827583.7613

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:32:49	R1710088-003	Ni (230.299 nm)	-0.0186 u (ppm)	4.23	-0.0186 (ppm)	-155.0777
11/1/2017 22:32:49	R1710088-003	Pb (220.353 nm)	-0.0036 u (ppm)	20.30	-0.0036 (ppm)	-2.4835
11/1/2017 22:32:49	R1710088-003	Sb (217.582 nm)	-0.0053 u (ppm)	50.21	-0.0053 (ppm)	-3.3769
11/1/2017 22:32:49	R1710088-003	Se (196.026 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.9126
11/1/2017 22:32:49	R1710088-003	Sn (189.925 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-2.2933
11/1/2017 22:32:49	R1710088-003	Sr (216.596 nm)	7.0613 o (ppm)	0.15	7.0613 (ppm)	105334.8537
11/1/2017 22:32:49	R1710088-003	Ti (336.122 nm)	0.0041 (ppm)	1.24	0.0041 (ppm)	481.5336
11/1/2017 22:32:49	R1710088-003	Tl (351.923 nm)	0.0108 (ppm)	29.77	0.0108 (ppm)	45.2177
11/1/2017 22:32:49	R1710088-003	V (292.401 nm)	0.0017 (ppm)	11.87	0.0017 (ppm)	170.5271
11/1/2017 22:32:49	R1710088-003	Y (360.074 nm)	0.87 (Ratio)	0.75	0.87 (Ratio)	811757.20
11/1/2017 22:32:49	R1710088-003	Y_R (360.074 nm)	0.87 (Ratio)	0.76	0.87 (Ratio)	812438.15
11/1/2017 22:32:49	R1710088-003	Zn (213.857 nm)	0.0089 (ppm)	0.99	0.0089 (ppm)	227.5775
11/1/2017 22:36:08	R1710088-004	Ag (328.068 nm)	0.0002 (ppm)	36.49	0.0002 (ppm)	-113.7629
11/1/2017 22:36:08	R1710088-004	Al (394.401 nm)	0.7830 (ppm)	0.13	0.7830 (ppm)	10538.5651
11/1/2017 22:36:08	R1710088-004	As (188.980 nm)	0.0042 (ppm)	53.13	0.0042 (ppm)	0.9899
11/1/2017 22:36:08	R1710088-004	B (249.772 nm)	0.3865 (ppm)	0.73	0.3865 (ppm)	11165.2904
11/1/2017 22:36:08	R1710088-004	Ba (230.424 nm)	0.0611 (ppm)	1.27	0.0611 (ppm)	2144.9548
11/1/2017 22:36:08	R1710088-004	Be (313.107 nm)	0.0000 (ppm)	60.53	0.0000 (ppm)	-519.2357
11/1/2017 22:36:08	R1710088-004	Ca (227.547 nm)	427.8331 o (ppm)	0.61	427.8331 (ppm)	25131.8015
11/1/2017 22:36:08	R1710088-004	Cd (214.439 nm)	0.0002 (ppm)	42.09	0.0002 (ppm)	16.7382
11/1/2017 22:36:08	R1710088-004	Co (230.786 nm)	0.0054 (ppm)	9.17	0.0054 (ppm)	53.9600
11/1/2017 22:36:08	R1710088-004	Cr (267.716 nm)	0.0294 (ppm)	0.66	0.0294 (ppm)	1531.4231
11/1/2017 22:36:08	R1710088-004	Cu (327.395 nm)	0.0040 (ppm)	1.10	0.0040 (ppm)	272.5768
11/1/2017 22:36:08	R1710088-004	Fe (234.350 nm)	10.5828 (ppm)	0.87	10.5828 (ppm)	123014.2028
11/1/2017 22:36:08	R1710088-004	K (766.491 nm)	17.2631 (ppm)	0.42	17.2631 (ppm)	53358.3732
11/1/2017 22:36:08	R1710088-004	Mg (279.078 nm)	77.6823 o (ppm)	0.96	77.6823 (ppm)	156738.9614
11/1/2017 22:36:08	R1710088-004	Mn (257.610 nm)	0.8855 (ppm)	1.66	0.8855 (ppm)	286505.9033
11/1/2017 22:36:08	R1710088-004	Mo (202.032 nm)	0.0005 (ppm)	3.05	0.0005 (ppm)	21.9910
11/1/2017 22:36:08	R1710088-004	Na (588.995 nm)	473.7555 o (ppm)	0.48	473.7555 (ppm)	21733142.4696
11/1/2017 22:36:08	R1710088-004	Ni (230.299 nm)	0.3230 (ppm)	1.18	0.3230 (ppm)	2215.0998
11/1/2017 22:36:08	R1710088-004	Pb (220.353 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	1.5566
11/1/2017 22:36:08	R1710088-004	Sb (217.582 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	0.6047
11/1/2017 22:36:08	R1710088-004	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	4.2570
11/1/2017 22:36:08	R1710088-004	Sn (189.925 nm)	-0.0013 u (ppm)	88.23	-0.0013 (ppm)	-1.7566
11/1/2017 22:36:08	R1710088-004	Sr (216.596 nm)	1.4370 (ppm)	0.94	1.4370 (ppm)	21435.1068
11/1/2017 22:36:08	R1710088-004	Ti (336.122 nm)	0.0175 (ppm)	2.52	0.0175 (ppm)	3407.6369
11/1/2017 22:36:08	R1710088-004	Tl (351.923 nm)	0.0061 (ppm)	43.38	0.0061 (ppm)	32.0351
11/1/2017 22:36:08	R1710088-004	V (292.401 nm)	0.0022 (ppm)	9.34	0.0022 (ppm)	189.8280
11/1/2017 22:36:08	R1710088-004	Y (360.074 nm)	0.86 (Ratio)	0.28	0.86 (Ratio)	804726.68
11/1/2017 22:36:08	R1710088-004	Y_R (360.074 nm)	0.86 (Ratio)	0.26	0.86 (Ratio)	805391.84
11/1/2017 22:36:08	R1710088-004	Zn (213.857 nm)	0.0088 (ppm)	2.18	0.0088 (ppm)	225.7510
11/1/2017 22:39:27	R1710211-001	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-122.9484
11/1/2017 22:39:27	R1710211-001	Al (394.401 nm)	0.0230 (ppm)	0.88	0.0230 (ppm)	390.5712
11/1/2017 22:39:27	R1710211-001	As (188.980 nm)	0.0033 (ppm)	46.19	0.0033 (ppm)	0.1677
11/1/2017 22:39:27	R1710211-001	B (249.772 nm)	0.0262 (ppm)	1.34	0.0262 (ppm)	841.5782
11/1/2017 22:39:27	R1710211-001	Ba (230.424 nm)	0.0842 (ppm)	0.23	0.0842 (ppm)	2954.8086
11/1/2017 22:39:27	R1710211-001	Be (313.107 nm)	0.0000 (ppm)	90.43	0.0000 (ppm)	-524.4854
11/1/2017 22:39:27	R1710211-001	Ca (227.547 nm)	69.9721 o (ppm)	0.70	69.9721 (ppm)	4115.4659
11/1/2017 22:39:27	R1710211-001	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	10.9875
11/1/2017 22:39:27	R1710211-001	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.8057
11/1/2017 22:39:27	R1710211-001	Cr (267.716 nm)	-0.0003 u (ppm)	62.80	-0.0003 (ppm)	-15.4708

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:39:27	R1710211-001	Cu (327.395 nm)	0.0001 (ppm)	67.78	0.0001 (ppm)	25.7527
11/1/2017 22:39:27	R1710211-001	Fe (234.350 nm)	0.7887 (ppm)	0.26	0.7887 (ppm)	9235.6500
11/1/2017 22:39:27	R1710211-001	K (766.491 nm)	1.5340 (ppm)	0.89	1.5340 (ppm)	4793.9150
11/1/2017 22:39:27	R1710211-001	Mg (279.078 nm)	32.7375 (ppm)	0.17	32.7375 (ppm)	66050.0227
11/1/2017 22:39:27	R1710211-001	Mn (257.610 nm)	0.5226 (ppm)	0.98	0.5226 (ppm)	169122.4445
11/1/2017 22:39:27	R1710211-001	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.6430
11/1/2017 22:39:27	R1710211-001	Na (588.995 nm)	17.3209 (ppm)	0.87	17.3209 (ppm)	788822.4921
11/1/2017 22:39:27	R1710211-001	Ni (230.299 nm)	0.0098 (ppm)	3.34	0.0098 (ppm)	41.6096
11/1/2017 22:39:27	R1710211-001	Pb (220.353 nm)	-0.0015 u (ppm)	77.59	-0.0015 (ppm)	2.1915
11/1/2017 22:39:27	R1710211-001	Sb (217.582 nm)	-0.0011 u (ppm)	87.12	-0.0011 (ppm)	2.5151
11/1/2017 22:39:27	R1710211-001	Se (196.026 nm)	-0.0040 u (ppm)	21.94	-0.0040 (ppm)	2.0164
11/1/2017 22:39:27	R1710211-001	Sn (189.925 nm)	-0.0020 u (ppm)	32.94	-0.0020 (ppm)	-2.7495
11/1/2017 22:39:27	R1710211-001	Sr (216.596 nm)	0.3892 (ppm)	0.07	0.3892 (ppm)	5804.4115
11/1/2017 22:39:27	R1710211-001	Ti (336.122 nm)	0.0008 (ppm)	4.76	0.0008 (ppm)	-254.0711
11/1/2017 22:39:27	R1710211-001	Tl (351.923 nm)	-0.0040 u (ppm)	7.78	-0.0040 (ppm)	3.2790
11/1/2017 22:39:27	R1710211-001	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	111.6358
11/1/2017 22:39:27	R1710211-001	Y (360.074 nm)	0.98 (Ratio)	0.68	0.98 (Ratio)	921948.47
11/1/2017 22:39:27	R1710211-001	Y_R (360.074 nm)	0.99 (Ratio)	0.68	0.99 (Ratio)	922551.00
11/1/2017 22:39:27	R1710211-001	Zn (213.857 nm)	0.0017 (ppm)	5.11	0.0017 (ppm)	18.4514
11/1/2017 22:42:47	R1710211-002	Ag (328.068 nm)	0.0001 (ppm)	22.11	0.0001 (ppm)	-118.5861
11/1/2017 22:42:47	R1710211-002	Al (394.401 nm)	0.0270 (ppm)	1.56	0.0270 (ppm)	443.9713
11/1/2017 22:42:47	R1710211-002	As (188.980 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	-1.1052
11/1/2017 22:42:47	R1710211-002	B (249.772 nm)	0.0334 (ppm)	0.66	0.0334 (ppm)	1047.7234
11/1/2017 22:42:47	R1710211-002	Ba (230.424 nm)	0.1367 (ppm)	0.54	0.1367 (ppm)	4792.6043
11/1/2017 22:42:47	R1710211-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-508.3829
11/1/2017 22:42:47	R1710211-002	Ca (227.547 nm)	65.3981 o (ppm)	0.51	65.3981 (ppm)	3846.8441
11/1/2017 22:42:47	R1710211-002	Cd (214.439 nm)	-0.0001 u (ppm)	40.35	-0.0001 (ppm)	9.7409
11/1/2017 22:42:47	R1710211-002	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.7145
11/1/2017 22:42:47	R1710211-002	Cr (267.716 nm)	-0.0004 u (ppm)	27.67	-0.0004 (ppm)	-19.9951
11/1/2017 22:42:47	R1710211-002	Cu (327.395 nm)	0.0002 (ppm)	88.98	0.0002 (ppm)	36.3157
11/1/2017 22:42:47	R1710211-002	Fe (234.350 nm)	0.1946 (ppm)	0.52	0.1946 (ppm)	2333.4658
11/1/2017 22:42:47	R1710211-002	K (766.491 nm)	1.4360 (ppm)	1.09	1.4360 (ppm)	4491.2292
11/1/2017 22:42:47	R1710211-002	Mg (279.078 nm)	29.2189 (ppm)	0.31	29.2189 (ppm)	58950.4289
11/1/2017 22:42:47	R1710211-002	Mn (257.610 nm)	0.4286 (ppm)	1.32	0.4286 (ppm)	138692.5470
11/1/2017 22:42:47	R1710211-002	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.7703
11/1/2017 22:42:47	R1710211-002	Na (588.995 nm)	14.9353 (ppm)	0.58	14.9353 (ppm)	679354.7091
11/1/2017 22:42:47	R1710211-002	Ni (230.299 nm)	0.0079 (ppm)	9.81	0.0079 (ppm)	28.5557
11/1/2017 22:42:47	R1710211-002	Pb (220.353 nm)	-0.0021 u (ppm)	88.72	-0.0021 (ppm)	0.9631
11/1/2017 22:42:47	R1710211-002	Sb (217.582 nm)	-0.0036 u (ppm)	73.72	-0.0036 (ppm)	-1.0412
11/1/2017 22:42:47	R1710211-002	Se (196.026 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	4.1017
11/1/2017 22:42:47	R1710211-002	Sn (189.925 nm)	-0.0013 u (ppm)	33.56	-0.0013 (ppm)	-1.8177
11/1/2017 22:42:47	R1710211-002	Sr (216.596 nm)	0.3511 (ppm)	0.30	0.3511 (ppm)	5236.5710
11/1/2017 22:42:47	R1710211-002	Ti (336.122 nm)	0.0007 (ppm)	2.60	0.0007 (ppm)	-258.7573
11/1/2017 22:42:47	R1710211-002	Tl (351.923 nm)	-0.0044 u (ppm)	50.36	-0.0044 (ppm)	2.1036
11/1/2017 22:42:47	R1710211-002	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	113.9562
11/1/2017 22:42:47	R1710211-002	Y (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	926350.91
11/1/2017 22:42:47	R1710211-002	Y_R (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	926966.28
11/1/2017 22:42:47	R1710211-002	Zn (213.857 nm)	0.0724 (ppm)	0.47	0.0724 (ppm)	2072.7000
11/1/2017 22:46:05	R1710211-003	Ag (328.068 nm)	0.0002 (ppm)	20.86	0.0002 (ppm)	-114.2545
11/1/2017 22:46:05	R1710211-003	Al (394.401 nm)	0.0199 (ppm)	3.62	0.0199 (ppm)	349.4338
11/1/2017 22:46:05	R1710211-003	As (188.980 nm)	0.0016 (ppm)	> 100.00	0.0016 (ppm)	-1.3749

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:46:05	R1710211-003	B (249.772 nm)	0.0248 (ppm)	0.55	0.0248 (ppm)	801.4901
11/1/2017 22:46:05	R1710211-003	Ba (230.424 nm)	0.0694 (ppm)	0.13	0.0694 (ppm)	2435.9381
11/1/2017 22:46:05	R1710211-003	Be (313.107 nm)	0.0000 (ppm)	60.91	0.0000 (ppm)	-520.2154
11/1/2017 22:46:05	R1710211-003	Ca (227.547 nm)	68.7002 o (ppm)	0.45	68.7002 (ppm)	4040.7737
11/1/2017 22:46:05	R1710211-003	Cd (214.439 nm)	-0.0002 u (ppm)	9.74	-0.0002 (ppm)	8.4958
11/1/2017 22:46:05	R1710211-003	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.0674
11/1/2017 22:46:05	R1710211-003	Cr (267.716 nm)	-0.0003 u (ppm)	24.87	-0.0003 (ppm)	-14.0712
11/1/2017 22:46:05	R1710211-003	Cu (327.395 nm)	0.0003 (ppm)	23.62	0.0003 (ppm)	37.5173
11/1/2017 22:46:05	R1710211-003	Fe (234.350 nm)	0.0064 (ppm)	6.10	0.0064 (ppm)	147.0392
11/1/2017 22:46:05	R1710211-003	K (766.491 nm)	1.4919 (ppm)	0.49	1.4919 (ppm)	4663.6957
11/1/2017 22:46:05	R1710211-003	Mg (279.078 nm)	32.5810 (ppm)	0.45	32.5810 (ppm)	65734.3080
11/1/2017 22:46:05	R1710211-003	Mn (257.610 nm)	0.0211 (ppm)	30.92	0.0211 (ppm)	6855.7766
11/1/2017 22:46:05	R1710211-003	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	19.1791
11/1/2017 22:46:05	R1710211-003	Na (588.995 nm)	16.8812 (ppm)	0.67	16.8812 (ppm)	768643.7081
11/1/2017 22:46:05	R1710211-003	Ni (230.299 nm)	0.0108 (ppm)	8.33	0.0108 (ppm)	48.6522
11/1/2017 22:46:05	R1710211-003	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	3.6857
11/1/2017 22:46:05	R1710211-003	Sb (217.582 nm)	-0.0040 u (ppm)	29.69	-0.0040 (ppm)	-1.5773
11/1/2017 22:46:05	R1710211-003	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	4.6292
11/1/2017 22:46:05	R1710211-003	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.3639
11/1/2017 22:46:05	R1710211-003	Sr (216.596 nm)	0.3829 (ppm)	0.72	0.3829 (ppm)	5710.8033
11/1/2017 22:46:05	R1710211-003	Ti (336.122 nm)	0.0006 (ppm)	3.81	0.0006 (ppm)	-280.2515
11/1/2017 22:46:05	R1710211-003	Tl (351.923 nm)	-0.0028 u (ppm)	62.82	-0.0028 (ppm)	6.6691
11/1/2017 22:46:05	R1710211-003	V (292.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	103.8444
11/1/2017 22:46:05	R1710211-003	Y (360.074 nm)	0.99 (Ratio)	0.77	0.99 (Ratio)	923208.50
11/1/2017 22:46:05	R1710211-003	Y_R (360.074 nm)	0.99 (Ratio)	0.77	0.99 (Ratio)	923906.21
11/1/2017 22:46:05	R1710211-003	Zn (213.857 nm)	0.0014 (ppm)	2.06	0.0014 (ppm)	9.0641
11/1/2017 22:49:24	R1710211-004	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-119.7876
11/1/2017 22:49:24	R1710211-004	Al (394.401 nm)	0.0269 (ppm)	1.55	0.0269 (ppm)	442.9256
11/1/2017 22:49:24	R1710211-004	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.9230
11/1/2017 22:49:24	R1710211-004	B (249.772 nm)	0.0357 (ppm)	0.63	0.0357 (ppm)	1113.3843
11/1/2017 22:49:24	R1710211-004	Ba (230.424 nm)	0.1164 (ppm)	0.21	0.1164 (ppm)	4080.2125
11/1/2017 22:49:24	R1710211-004	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-517.3377
11/1/2017 22:49:24	R1710211-004	Ca (227.547 nm)	66.7050 o (ppm)	0.45	66.7050 (ppm)	3923.5989
11/1/2017 22:49:24	R1710211-004	Cd (214.439 nm)	-0.0001 u (ppm)	62.44	-0.0001 (ppm)	9.9757
11/1/2017 22:49:24	R1710211-004	Co (230.786 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-5.5163
11/1/2017 22:49:24	R1710211-004	Cr (267.716 nm)	-0.0002 u (ppm)	97.67	-0.0002 (ppm)	-8.3477
11/1/2017 22:49:24	R1710211-004	Cu (327.395 nm)	0.0003 (ppm)	29.26	0.0003 (ppm)	41.3872
11/1/2017 22:49:24	R1710211-004	Fe (234.350 nm)	0.0036 (ppm)	3.03	0.0036 (ppm)	114.1105
11/1/2017 22:49:24	R1710211-004	K (766.491 nm)	1.4508 (ppm)	0.60	1.4508 (ppm)	4537.0891
11/1/2017 22:49:24	R1710211-004	Mg (279.078 nm)	31.4671 (ppm)	0.36	31.4671 (ppm)	63486.7355
11/1/2017 22:49:24	R1710211-004	Mn (257.610 nm)	0.0209 (ppm)	30.88	0.0209 (ppm)	6803.0440
11/1/2017 22:49:24	R1710211-004	Mo (202.032 nm)	0.0002 (ppm)	86.58	0.0002 (ppm)	19.1533
11/1/2017 22:49:24	R1710211-004	Na (588.995 nm)	16.5607 (ppm)	0.66	16.5607 (ppm)	753938.4198
11/1/2017 22:49:24	R1710211-004	Ni (230.299 nm)	0.0107 (ppm)	11.23	0.0107 (ppm)	48.3493
11/1/2017 22:49:24	R1710211-004	Pb (220.353 nm)	-0.0028 u (ppm)	42.93	-0.0028 (ppm)	-0.6638
11/1/2017 22:49:24	R1710211-004	Sb (217.582 nm)	-0.0046 u (ppm)	81.91	-0.0046 (ppm)	-2.4600
11/1/2017 22:49:24	R1710211-004	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	4.4543
11/1/2017 22:49:24	R1710211-004	Sn (189.925 nm)	-0.0017 u (ppm)	42.75	-0.0017 (ppm)	-2.3362
11/1/2017 22:49:24	R1710211-004	Sr (216.596 nm)	0.3704 (ppm)	0.04	0.3704 (ppm)	5524.7299
11/1/2017 22:49:24	R1710211-004	Ti (336.122 nm)	0.0008 (ppm)	1.64	0.0008 (ppm)	-251.4641
11/1/2017 22:49:24	R1710211-004	Tl (351.923 nm)	-0.0029 u (ppm)	10.17	-0.0029 (ppm)	6.4236

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:49:24	R1710211-004	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	106.0001
11/1/2017 22:49:24	R1710211-004	Y (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	929022.54
11/1/2017 22:49:24	R1710211-004	Y_R (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	929732.58
11/1/2017 22:49:24	R1710211-004	Zn (213.857 nm)	0.0804 (ppm)	0.41	0.0804 (ppm)	2305.6883
11/1/2017 22:52:42	Continuing Calibration Verification1	Ag (328.068 nm)	0.4820 (ppm)	0.47	0.4820 (ppm)	35285.3552
11/1/2017 22:52:42	Continuing Calibration Verification1	Al (394.401 nm)	9.4740 (ppm)	0.63	9.4740 (ppm)	126594.4125
11/1/2017 22:52:42	Continuing Calibration Verification1	As (188.980 nm)	0.9492 (ppm)	0.77	0.9492 (ppm)	875.6414
11/1/2017 22:52:42	Continuing Calibration Verification1	B (249.772 nm)	2.3661 (ppm)	0.38	2.3661 (ppm)	67894.6366
11/1/2017 22:52:42	Continuing Calibration Verification1	Ba (230.424 nm)	10.0328 (ppm)	0.35	10.0328 (ppm)	351129.5675
11/1/2017 22:52:42	Continuing Calibration Verification1	Be (313.107 nm)	0.2489 (ppm)	0.35	0.2489 (ppm)	376966.0032
11/1/2017 22:52:42	Continuing Calibration Verification1	Ca (227.547 nm)	24.0616 (ppm)	0.68	24.0616 (ppm)	1419.2499
11/1/2017 22:52:42	Continuing Calibration Verification1	Cd (214.439 nm)	0.4822 (ppm)	0.44	0.4822 (ppm)	10978.1821
11/1/2017 22:52:42	Continuing Calibration Verification1	Co (230.786 nm)	2.5232 (ppm)	0.42	2.5232 (ppm)	25967.3438
11/1/2017 22:52:42	Continuing Calibration Verification1	Cr (267.716 nm)	0.4921 (ppm)	0.42	0.4921 (ppm)	25665.3773
11/1/2017 22:52:42	Continuing Calibration Verification1	Cu (327.395 nm)	1.1945 (ppm)	0.85	1.1945 (ppm)	75045.9444
11/1/2017 22:52:42	Continuing Calibration Verification1	Fe (234.350 nm)	4.7270 (ppm)	0.38	4.7270 (ppm)	54987.1268
11/1/2017 22:52:42	Continuing Calibration Verification1	K (766.491 nm)	24.7549 (ppm)	0.72	24.7549 (ppm)	76489.8872
11/1/2017 22:52:42	Continuing Calibration Verification1	Mg (279.078 nm)	24.3359 (ppm)	0.35	24.3359 (ppm)	49097.4702
11/1/2017 22:52:42	Continuing Calibration Verification1	Mn (257.610 nm)	0.7429 (ppm)	0.36	0.7429 (ppm)	240397.9230
11/1/2017 22:52:42	Continuing Calibration Verification1	Mo (202.032 nm)	2.3455 (ppm)	0.34	2.3455 (ppm)	25113.1108
11/1/2017 22:52:42	Continuing Calibration Verification1	Na (588.995 nm)	24.8643 (ppm)	0.79	24.8643 (ppm)	1134964.6228
11/1/2017 22:52:42	Continuing Calibration Verification1	Ni (230.299 nm)	1.9808 (ppm)	0.51	1.9808 (ppm)	13719.3041
11/1/2017 22:52:42	Continuing Calibration Verification1	Pb (220.353 nm)	0.4847 (ppm)	0.03	0.4847 (ppm)	1087.5496
11/1/2017 22:52:42	Continuing Calibration Verification1	Sb (217.582 nm)	4.8071 (ppm)	0.52	4.8071 (ppm)	6861.8970
11/1/2017 22:52:42	Continuing Calibration Verification1	Se (196.026 nm)	0.4697 (ppm)	0.82	0.4697 (ppm)	415.8042
11/1/2017 22:52:42	Continuing Calibration Verification1	Sn (189.925 nm)	4.9082 (ppm)	0.40	4.9082 (ppm)	6254.0392
11/1/2017 22:52:42	Continuing Calibration Verification1	Sr (216.596 nm)	2.4394 (ppm)	0.15	2.4394 (ppm)	36387.7011
11/1/2017 22:52:42	Continuing Calibration Verification1	Ti (336.122 nm)	2.4470 (ppm)	0.71	2.4470 (ppm)	536208.0925
11/1/2017 22:52:42	Continuing Calibration Verification1	Tl (351.923 nm)	0.9746 (ppm)	0.49	0.9746 (ppm)	2781.5615
11/1/2017 22:52:42	Continuing Calibration Verification1	V (292.401 nm)	2.4779 (ppm)	0.44	2.4779 (ppm)	89304.7722
11/1/2017 22:52:42	Continuing Calibration Verification1	Y (360.074 nm)	0.99 (Ratio)	0.86	0.99 (Ratio)	923609.13
11/1/2017 22:52:42	Continuing Calibration Verification1	Y_R (360.074 nm)	0.99 (Ratio)	0.86	0.99 (Ratio)	924222.77
11/1/2017 22:52:42	Continuing Calibration Verification1	Zn (213.857 nm)	0.9733 (ppm)	0.40	0.9733 (ppm)	28248.4824
11/1/2017 22:56:01	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-120.5999
11/1/2017 22:56:01	Continuing Calibration Blank1	Al (394.401 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	79.6556
11/1/2017 22:56:01	Continuing Calibration Blank1	As (188.980 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-1.5498
11/1/2017 22:56:01	Continuing Calibration Blank1	B (249.772 nm)	0.0010 (ppm)	64.56	0.0010 (ppm)	118.1205
11/1/2017 22:56:01	Continuing Calibration Blank1	Ba (230.424 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	12.8593
11/1/2017 22:56:01	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	33.19	0.0000 (ppm)	-484.5950
11/1/2017 22:56:01	Continuing Calibration Blank1	Ca (227.547 nm)	0.0058 u (ppm)	> 100.00	0.0058 (ppm)	6.5083
11/1/2017 22:56:01	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	14.8407
11/1/2017 22:56:01	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.0773
11/1/2017 22:56:01	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.4554
11/1/2017 22:56:01	Continuing Calibration Blank1	Cu (327.395 nm)	-0.0001 u (ppm)	60.87	-0.0001 (ppm)	17.2540
11/1/2017 22:56:01	Continuing Calibration Blank1	Fe (234.350 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	72.9000
11/1/2017 22:56:01	Continuing Calibration Blank1	K (766.491 nm)	0.0128 (ppm)	93.56	0.0128 (ppm)	97.1255
11/1/2017 22:56:01	Continuing Calibration Blank1	Mg (279.078 nm)	0.0032 (ppm)	31.19	0.0032 (ppm)	-0.5442
11/1/2017 22:56:01	Continuing Calibration Blank1	Mn (257.610 nm)	0.0041 (ppm)	29.72	0.0041 (ppm)	1356.1212
11/1/2017 22:56:01	Continuing Calibration Blank1	Mo (202.032 nm)	0.0026 (ppm)	9.98	0.0026 (ppm)	44.6260
11/1/2017 22:56:01	Continuing Calibration Blank1	Na (588.995 nm)	0.0120 (ppm)	4.21	0.0120 (ppm)	-5428.9061
11/1/2017 22:56:01	Continuing Calibration Blank1	Ni (230.299 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-24.1335

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 22:56:01	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.2739
11/1/2017 22:56:01	Continuing Calibration Blank1	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	3.8160
11/1/2017 22:56:01	Continuing Calibration Blank1	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	5.8591
11/1/2017 22:56:01	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.3666
11/1/2017 22:56:01	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-0.5059
11/1/2017 22:56:01	Continuing Calibration Blank1	Ti (336.122 nm)	0.0007 (ppm)	8.65	0.0007 (ppm)	-271.0700
11/1/2017 22:56:01	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	11.3763
11/1/2017 22:56:01	Continuing Calibration Blank1	V (292.401 nm)	-0.0002 u (ppm)	76.91	-0.0002 (ppm)	102.4017
11/1/2017 22:56:01	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.69	1.03 (Ratio)	962911.47
11/1/2017 22:56:01	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.69	1.03 (Ratio)	963386.94
11/1/2017 22:56:01	Continuing Calibration Blank1	Zn (213.857 nm)	0.0002 (ppm)	22.86	0.0002 (ppm)	-25.7142
11/1/2017 22:59:19	R1710236-001	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-120.1483
11/1/2017 22:59:19	R1710236-001	Al (394.401 nm)	0.0481 (ppm)	0.46	0.0481 (ppm)	725.6818
11/1/2017 22:59:19	R1710236-001	As (188.980 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-1.5308
11/1/2017 22:59:19	R1710236-001	B (249.772 nm)	0.0037 (ppm)	4.40	0.0037 (ppm)	195.8663
11/1/2017 22:59:19	R1710236-001	Ba (230.424 nm)	0.0238 (ppm)	0.84	0.0238 (ppm)	839.2612
11/1/2017 22:59:19	R1710236-001	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-507.0984
11/1/2017 22:59:19	R1710236-001	Ca (227.547 nm)	10.9994 (ppm)	0.24	10.9994 (ppm)	652.1393
11/1/2017 22:59:19	R1710236-001	Cd (214.439 nm)	-0.0001 u (ppm)	71.91	-0.0001 (ppm)	10.3065
11/1/2017 22:59:19	R1710236-001	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.7494
11/1/2017 22:59:19	R1710236-001	Cr (267.716 nm)	-0.0001 u (ppm)	60.47	-0.0001 (ppm)	-5.9618
11/1/2017 22:59:19	R1710236-001	Cu (327.395 nm)	0.0012 (ppm)	9.27	0.0012 (ppm)	98.4102
11/1/2017 22:59:19	R1710236-001	Fe (234.350 nm)	0.2869 (ppm)	0.49	0.2869 (ppm)	3405.6661
11/1/2017 22:59:19	R1710236-001	K (766.491 nm)	1.8183 (ppm)	0.79	1.8183 (ppm)	5671.6337
11/1/2017 22:59:19	R1710236-001	Mg (279.078 nm)	1.4734 (ppm)	0.48	1.4734 (ppm)	2965.9093
11/1/2017 22:59:19	R1710236-001	Mn (257.610 nm)	0.0477 (ppm)	8.84	0.0477 (ppm)	15478.2643
11/1/2017 22:59:19	R1710236-001	Mo (202.032 nm)	0.0009 (ppm)	62.07	0.0009 (ppm)	26.5807
11/1/2017 22:59:19	R1710236-001	Na (588.995 nm)	11.6574 (ppm)	0.62	11.6574 (ppm)	528942.6925
11/1/2017 22:59:19	R1710236-001	Ni (230.299 nm)	-0.0056 u (ppm)	15.66	-0.0056 (ppm)	-64.6480
11/1/2017 22:59:19	R1710236-001	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	3.9262
11/1/2017 22:59:19	R1710236-001	Sb (217.582 nm)	-0.0019 u (ppm)	97.67	-0.0019 (ppm)	1.3556
11/1/2017 22:59:19	R1710236-001	Se (196.026 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	4.0620
11/1/2017 22:59:19	R1710236-001	Sn (189.925 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	0.2404
11/1/2017 22:59:19	R1710236-001	Sr (216.596 nm)	0.1027 (ppm)	1.08	0.1027 (ppm)	1531.0746
11/1/2017 22:59:19	R1710236-001	Ti (336.122 nm)	0.0009 (ppm)	9.94	0.0009 (ppm)	-219.8545
11/1/2017 22:59:19	R1710236-001	Tl (351.923 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	13.0178
11/1/2017 22:59:19	R1710236-001	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	107.7903
11/1/2017 22:59:19	R1710236-001	Y (360.074 nm)	1.02 (Ratio)	0.79	1.02 (Ratio)	955905.01
11/1/2017 22:59:19	R1710236-001	Y_R (360.074 nm)	1.02 (Ratio)	0.79	1.02 (Ratio)	956582.46
11/1/2017 22:59:19	R1710236-001	Zn (213.857 nm)	0.0021 (ppm)	2.82	0.0021 (ppm)	31.2745
11/1/2017 23:02:38	R1710236-002	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-123.9702
11/1/2017 23:02:38	R1710236-002	Al (394.401 nm)	0.0366 (ppm)	2.43	0.0366 (ppm)	572.0116
11/1/2017 23:02:38	R1710236-002	As (188.980 nm)	0.0021 (ppm)	93.13	0.0021 (ppm)	-0.9914
11/1/2017 23:02:38	R1710236-002	B (249.772 nm)	0.0036 (ppm)	0.48	0.0036 (ppm)	194.2363
11/1/2017 23:02:38	R1710236-002	Ba (230.424 nm)	0.0226 (ppm)	1.06	0.0226 (ppm)	800.5539
11/1/2017 23:02:38	R1710236-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-504.0268
11/1/2017 23:02:38	R1710236-002	Ca (227.547 nm)	10.8821 (ppm)	0.83	10.8821 (ppm)	645.2505
11/1/2017 23:02:38	R1710236-002	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.2137
11/1/2017 23:02:38	R1710236-002	Co (230.786 nm)	-0.0004 u (ppm)	19.64	-0.0004 (ppm)	-5.3682
11/1/2017 23:02:38	R1710236-002	Cr (267.716 nm)	-0.0001 u (ppm)	71.67	-0.0001 (ppm)	-6.4240
11/1/2017 23:02:38	R1710236-002	Cu (327.395 nm)	0.0010 (ppm)	1.83	0.0010 (ppm)	85.6372

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:02:38	R1710236-002	Fe (234.350 nm)	0.2360 (ppm)	0.49	0.2360 (ppm)	2814.5787
11/1/2017 23:02:38	R1710236-002	K (766.491 nm)	1.8071 (ppm)	0.67	1.8071 (ppm)	5636.9964
11/1/2017 23:02:38	R1710236-002	Mg (279.078 nm)	1.4544 (ppm)	0.50	1.4544 (ppm)	2927.6487
11/1/2017 23:02:38	R1710236-002	Mn (257.610 nm)	0.0454 (ppm)	9.53	0.0454 (ppm)	14719.2293
11/1/2017 23:02:38	R1710236-002	Mo (202.032 nm)	0.0006 (ppm)	66.03	0.0006 (ppm)	23.1388
11/1/2017 23:02:38	R1710236-002	Na (588.995 nm)	11.5979 (ppm)	0.83	11.5979 (ppm)	526210.2549
11/1/2017 23:02:38	R1710236-002	Ni (230.299 nm)	-0.0052 u (ppm)	6.61	-0.0052 (ppm)	-61.8796
11/1/2017 23:02:38	R1710236-002	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.0430
11/1/2017 23:02:38	R1710236-002	Sb (217.582 nm)	-0.0014 u (ppm)	80.53	-0.0014 (ppm)	2.1060
11/1/2017 23:02:38	R1710236-002	Se (196.026 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	4.1104
11/1/2017 23:02:38	R1710236-002	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-0.7832
11/1/2017 23:02:38	R1710236-002	Sr (216.596 nm)	0.1008 (ppm)	0.28	0.1008 (ppm)	1502.7381
11/1/2017 23:02:38	R1710236-002	Ti (336.122 nm)	0.0004 (ppm)	4.51	0.0004 (ppm)	-322.4495
11/1/2017 23:02:38	R1710236-002	Tl (351.923 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	10.8029
11/1/2017 23:02:38	R1710236-002	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	115.3540
11/1/2017 23:02:38	R1710236-002	Y (360.074 nm)	1.02 (Ratio)	0.84	1.02 (Ratio)	954623.52
11/1/2017 23:02:38	R1710236-002	Y_R (360.074 nm)	1.02 (Ratio)	0.84	1.02 (Ratio)	955269.49
11/1/2017 23:02:38	R1710236-002	Zn (213.857 nm)	0.0029 (ppm)	2.19	0.0029 (ppm)	52.2972
11/1/2017 23:05:56	R1710236-003	Ag (328.068 nm)	0.0001 (ppm)	52.28	0.0001 (ppm)	-114.9849
11/1/2017 23:05:56	R1710236-003	Al (394.401 nm)	0.0556 (ppm)	1.65	0.0556 (ppm)	825.3741
11/1/2017 23:05:56	R1710236-003	As (188.980 nm)	0.0095 (ppm)	9.54	0.0095 (ppm)	5.8758
11/1/2017 23:05:56	R1710236-003	B (249.772 nm)	1.6015 (ppm)	0.41	1.6015 (ppm)	45983.4600
11/1/2017 23:05:56	R1710236-003	Ba (230.424 nm)	0.3137 (ppm)	0.80	0.3137 (ppm)	10988.0444
11/1/2017 23:05:56	R1710236-003	Be (313.107 nm)	0.0002 (ppm)	1.57	0.0002 (ppm)	-234.2896
11/1/2017 23:05:56	R1710236-003	Ca (227.547 nm)	77.0020 o (ppm)	0.61	77.0020 (ppm)	4528.3161
11/1/2017 23:05:56	R1710236-003	Cd (214.439 nm)	0.0003 (ppm)	39.45	0.0003 (ppm)	20.0185
11/1/2017 23:05:56	R1710236-003	Co (230.786 nm)	0.0008 (ppm)	41.90	0.0008 (ppm)	7.1693
11/1/2017 23:05:56	R1710236-003	Cr (267.716 nm)	0.0021 (ppm)	1.73	0.0021 (ppm)	109.6524
11/1/2017 23:05:56	R1710236-003	Cu (327.395 nm)	0.0004 (ppm)	9.44	0.0004 (ppm)	47.5965
11/1/2017 23:05:56	R1710236-003	Fe (234.350 nm)	20.2879 o (ppm)	0.38	20.2879 (ppm)	235758.7455
11/1/2017 23:05:56	R1710236-003	K (766.491 nm)	59.4973 o (ppm)	0.59	59.4973 (ppm)	183759.1819
11/1/2017 23:05:56	R1710236-003	Mg (279.078 nm)	20.7403 (ppm)	0.40	20.7403 (ppm)	41842.4290
11/1/2017 23:05:56	R1710236-003	Mn (257.610 nm)	0.0928 (ppm)	12.54	0.0928 (ppm)	30065.6403
11/1/2017 23:05:56	R1710236-003	Mo (202.032 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	13.7904
11/1/2017 23:05:56	R1710236-003	Na (588.995 nm)	245.6674 o (ppm)	0.88	245.6674 (ppm)	11266912.6315
11/1/2017 23:05:56	R1710236-003	Ni (230.299 nm)	0.0417 (ppm)	4.18	0.0417 (ppm)	263.5704
11/1/2017 23:05:56	R1710236-003	Pb (220.353 nm)	-0.0016 u (ppm)	67.54	-0.0016 (ppm)	1.9602
11/1/2017 23:05:56	R1710236-003	Sb (217.582 nm)	-0.0045 u (ppm)	21.04	-0.0045 (ppm)	-2.2786
11/1/2017 23:05:56	R1710236-003	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	6.7510
11/1/2017 23:05:56	R1710236-003	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.5231
11/1/2017 23:05:56	R1710236-003	Sr (216.596 nm)	0.4086 (ppm)	0.50	0.4086 (ppm)	6094.6427
11/1/2017 23:05:56	R1710236-003	Ti (336.122 nm)	0.0030 (ppm)	1.61	0.0030 (ppm)	243.8831
11/1/2017 23:05:56	R1710236-003	Tl (351.923 nm)	-0.0009 u (ppm)	94.58	-0.0009 (ppm)	11.9697
11/1/2017 23:05:56	R1710236-003	V (292.401 nm)	0.0039 (ppm)	1.35	0.0039 (ppm)	250.6357
11/1/2017 23:05:56	R1710236-003	Y (360.074 nm)	0.93 (Ratio)	0.75	0.93 (Ratio)	873316.79
11/1/2017 23:05:56	R1710236-003	Y_R (360.074 nm)	0.93 (Ratio)	0.75	0.93 (Ratio)	874053.25
11/1/2017 23:05:56	R1710236-003	Zn (213.857 nm)	0.0059 (ppm)	1.78	0.0059 (ppm)	139.8204
11/1/2017 23:09:15	R1710236-004	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-127.8289
11/1/2017 23:09:15	R1710236-004	Al (394.401 nm)	0.0259 (ppm)	1.27	0.0259 (ppm)	428.5419
11/1/2017 23:09:15	R1710236-004	As (188.980 nm)	0.0106 (ppm)	37.10	0.0106 (ppm)	6.8951
11/1/2017 23:09:15	R1710236-004	B (249.772 nm)	1.6097 (ppm)	0.37	1.6097 (ppm)	46219.5188

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:09:15	R1710236-004	Be (230.424 nm)	0.3161 (ppm)	0.22	0.3161 (ppm)	11069.7178
11/1/2017 23:09:15	R1710236-004	Be (313.107 nm)	0.0002 (ppm)	6.01	0.0002 (ppm)	-266.8790
11/1/2017 23:09:15	R1710236-004	Ca (227.547 nm)	77.9395 o (ppm)	0.67	77.9395 (ppm)	4583.3758
11/1/2017 23:09:15	R1710236-004	Cd (214.439 nm)	0.0001 (ppm)	26.12	0.0001 (ppm)	15.1224
11/1/2017 23:09:15	R1710236-004	Co (230.786 nm)	0.0008 (ppm)	12.33	0.0008 (ppm)	7.1761
11/1/2017 23:09:15	R1710236-004	Cr (267.716 nm)	0.0021 (ppm)	1.19	0.0021 (ppm)	108.4520
11/1/2017 23:09:15	R1710236-004	Cu (327.395 nm)	0.0002 (ppm)	37.44	0.0002 (ppm)	36.0685
11/1/2017 23:09:15	R1710236-004	Fe (234.350 nm)	20.3967 o (ppm)	0.34	20.3967 (ppm)	237023.0496
11/1/2017 23:09:15	R1710236-004	K (766.491 nm)	60.2950 o (ppm)	0.54	60.2950 (ppm)	186222.3218
11/1/2017 23:09:15	R1710236-004	Mg (279.078 nm)	20.9693 (ppm)	0.26	20.9693 (ppm)	42304.4225
11/1/2017 23:09:15	R1710236-004	Mn (257.610 nm)	0.0970 (ppm)	12.66	0.0970 (ppm)	31403.1760
11/1/2017 23:09:15	R1710236-004	Mo (202.032 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	14.4768
11/1/2017 23:09:15	R1710236-004	Na (588.995 nm)	247.9508 o (ppm)	0.73	247.9508 (ppm)	11371686.8998
11/1/2017 23:09:15	R1710236-004	Ni (230.299 nm)	0.0435 (ppm)	3.79	0.0435 (ppm)	276.0906
11/1/2017 23:09:15	R1710236-004	Pb (220.353 nm)	-0.0024 u (ppm)	17.97	-0.0024 (ppm)	0.3263
11/1/2017 23:09:15	R1710236-004	Sb (217.582 nm)	-0.0054 u (ppm)	22.38	-0.0054 (ppm)	-3.5122
11/1/2017 23:09:15	R1710236-004	Se (196.026 nm)	-0.0041 u (ppm)	45.94	-0.0041 (ppm)	1.9137
11/1/2017 23:09:15	R1710236-004	Sn (189.925 nm)	-0.0013 u (ppm)	65.69	-0.0013 (ppm)	-1.8185
11/1/2017 23:09:15	R1710236-004	Sr (216.596 nm)	0.4122 (ppm)	0.50	0.4122 (ppm)	6147.8916
11/1/2017 23:09:15	R1710236-004	Ti (336.122 nm)	0.0018 (ppm)	3.94	0.0018 (ppm)	-35.5636
11/1/2017 23:09:15	R1710236-004	Tl (351.923 nm)	-0.0037 u (ppm)	71.15	-0.0037 (ppm)	4.1976
11/1/2017 23:09:15	R1710236-004	V (292.401 nm)	0.0039 (ppm)	2.41	0.0039 (ppm)	251.2286
11/1/2017 23:09:15	R1710236-004	Y (360.074 nm)	0.94 (Ratio)	0.59	0.94 (Ratio)	880083.56
11/1/2017 23:09:15	R1710236-004	Y_R (360.074 nm)	0.94 (Ratio)	0.59	0.94 (Ratio)	880776.98
11/1/2017 23:09:15	R1710236-004	Zn (213.857 nm)	0.0063 (ppm)	1.09	0.0063 (ppm)	152.7733
11/1/2017 23:12:34	R1710236-005	Ag (328.068 nm)	0.0001 (ppm)	11.26	0.0001 (ppm)	-115.8101
11/1/2017 23:12:34	R1710236-005	Al (394.401 nm)	0.0236 (ppm)	3.44	0.0236 (ppm)	398.3201
11/1/2017 23:12:34	R1710236-005	As (188.980 nm)	0.1788 (ppm)	0.90	0.1788 (ppm)	162.5550
11/1/2017 23:12:34	R1710236-005	B (249.772 nm)	0.1508 (ppm)	0.51	0.1508 (ppm)	4412.2388
11/1/2017 23:12:34	R1710236-005	Ba (230.424 nm)	0.0642 (ppm)	0.73	0.0642 (ppm)	2256.4492
11/1/2017 23:12:34	R1710236-005	Be (313.107 nm)	0.0000 (ppm)	85.59	0.0000 (ppm)	-519.5437
11/1/2017 23:12:34	R1710236-005	Ca (227.547 nm)	33.7138 (ppm)	0.55	33.7138 (ppm)	1986.1025
11/1/2017 23:12:34	R1710236-005	Cd (214.439 nm)	0.0005 (ppm)	31.30	0.0005 (ppm)	23.3675
11/1/2017 23:12:34	R1710236-005	Co (230.786 nm)	0.0022 (ppm)	19.54	0.0022 (ppm)	21.1136
11/1/2017 23:12:34	R1710236-005	Cr (267.716 nm)	-0.0008 u (ppm)	15.61	-0.0008 (ppm)	-41.7163
11/1/2017 23:12:34	R1710236-005	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	18.8586
11/1/2017 23:12:34	R1710236-005	Fe (234.350 nm)	31.3662 o (ppm)	0.26	31.3662 (ppm)	364457.3557
11/1/2017 23:12:34	R1710236-005	K (766.491 nm)	16.6832 (ppm)	0.53	16.6832 (ppm)	51567.9516
11/1/2017 23:12:34	R1710236-005	Mg (279.078 nm)	9.5716 (ppm)	0.34	9.5716 (ppm)	19306.3286
11/1/2017 23:12:34	R1710236-005	Mn (257.610 nm)	2.1736 o (ppm)	0.07	2.1736 (ppm)	703267.5976
11/1/2017 23:12:34	R1710236-005	Mo (202.032 nm)	0.0012 (ppm)	32.84	0.0012 (ppm)	30.0479
11/1/2017 23:12:34	R1710236-005	Na (588.995 nm)	80.1198 o (ppm)	0.75	80.1198 (ppm)	3670460.1981
11/1/2017 23:12:34	R1710236-005	Ni (230.299 nm)	-0.0049 u (ppm)	29.47	-0.0049 (ppm)	-60.2796
11/1/2017 23:12:34	R1710236-005	Pb (220.353 nm)	-0.0012 u (ppm)	29.18	-0.0012 (ppm)	2.8891
11/1/2017 23:12:34	R1710236-005	Sb (217.582 nm)	-0.0040 u (ppm)	65.47	-0.0040 (ppm)	-1.6467
11/1/2017 23:12:34	R1710236-005	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.5078
11/1/2017 23:12:34	R1710236-005	Sn (189.925 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	-1.1618
11/1/2017 23:12:34	R1710236-005	Sr (216.596 nm)	0.1463 (ppm)	0.70	0.1463 (ppm)	2180.9294
11/1/2017 23:12:34	R1710236-005	Ti (336.122 nm)	0.0006 (ppm)	4.06	0.0006 (ppm)	-279.5094
11/1/2017 23:12:34	R1710236-005	Tl (351.923 nm)	-0.0014 u (ppm)	47.37	-0.0014 (ppm)	10.7532
11/1/2017 23:12:34	R1710236-005	V (292.401 nm)	0.0011 (ppm)	12.62	0.0011 (ppm)	150.0617

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:12:34	R1710236-005	Y (360.074 nm)	0.97 (Ratio)	0.85	0.97 (Ratio)	911669.73
11/1/2017 23:12:34	R1710236-005	Y_R (360.074 nm)	0.97 (Ratio)	0.85	0.97 (Ratio)	912189.08
11/1/2017 23:12:34	R1710236-005	Zn (213.857 nm)	0.0065 (ppm)	1.24	0.0065 (ppm)	158.4667
11/1/2017 23:15:53	R1710236-006	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-125.7220
11/1/2017 23:15:53	R1710236-006	Al (394.401 nm)	0.0160 (ppm)	3.03	0.0160 (ppm)	297.1258
11/1/2017 23:15:53	R1710236-006	As (188.980 nm)	0.1612 (ppm)	0.73	0.1612 (ppm)	146.2840
11/1/2017 23:15:53	R1710236-006	B (249.772 nm)	0.1482 (ppm)	0.51	0.1482 (ppm)	4338.1894
11/1/2017 23:15:53	R1710236-006	Ba (230.424 nm)	0.0639 (ppm)	0.50	0.0639 (ppm)	2245.2897
11/1/2017 23:15:53	R1710236-006	Be (313.107 nm)	0.0000 (ppm)	31.84	0.0000 (ppm)	-524.4580
11/1/2017 23:15:53	R1710236-006	Ca (227.547 nm)	33.5190 (ppm)	0.55	33.5190 (ppm)	1974.6629
11/1/2017 23:15:53	R1710236-006	Cd (214.439 nm)	0.0002 (ppm)	70.73	0.0002 (ppm)	17.4644
11/1/2017 23:15:53	R1710236-006	Co (230.786 nm)	0.0022 (ppm)	15.13	0.0022 (ppm)	21.4392
11/1/2017 23:15:53	R1710236-006	Cr (267.716 nm)	-0.0009 u (ppm)	11.07	-0.0009 (ppm)	-45.4495
11/1/2017 23:15:53	R1710236-006	Cu (327.395 nm)	0.0001 (ppm)	28.60	0.0001 (ppm)	27.4977
11/1/2017 23:15:53	R1710236-006	Fe (234.350 nm)	29.7851 o (ppm)	0.37	29.7851 (ppm)	346089.2265
11/1/2017 23:15:53	R1710236-006	K (766.491 nm)	16.5984 (ppm)	0.61	16.5984 (ppm)	51306.0728
11/1/2017 23:15:53	R1710236-006	Mg (279.078 nm)	9.4476 (ppm)	0.47	9.4476 (ppm)	19056.1849
11/1/2017 23:15:53	R1710236-006	Mn (257.610 nm)	2.1020 o (ppm)	0.12	2.1020 (ppm)	680098.5458
11/1/2017 23:15:53	R1710236-006	Mo (202.032 nm)	0.0008 (ppm)	17.52	0.0008 (ppm)	25.5039
11/1/2017 23:15:53	R1710236-006	Na (588.995 nm)	78.4901 o (ppm)	0.60	78.4901 (ppm)	3595680.1525
11/1/2017 23:15:53	R1710236-006	Ni (230.299 nm)	-0.0048 u (ppm)	23.10	-0.0048 (ppm)	-59.3612
11/1/2017 23:15:53	R1710236-006	Pb (220.353 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	4.4805
11/1/2017 23:15:53	R1710236-006	Sb (217.582 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	0.6230
11/1/2017 23:15:53	R1710236-006	Se (196.026 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.5410
11/1/2017 23:15:53	R1710236-006	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.0369
11/1/2017 23:15:53	R1710236-006	Sr (216.596 nm)	0.1455 (ppm)	0.38	0.1455 (ppm)	2168.9131
11/1/2017 23:15:53	R1710236-006	Ti (336.122 nm)	0.0005 (ppm)	12.89	0.0005 (ppm)	-319.0335
11/1/2017 23:15:53	R1710236-006	Tl (351.923 nm)	-0.0025 u (ppm)	54.36	-0.0025 (ppm)	7.5683
11/1/2017 23:15:53	R1710236-006	V (292.401 nm)	0.0010 (ppm)	20.72	0.0010 (ppm)	147.3828
11/1/2017 23:15:53	R1710236-006	Y (360.074 nm)	0.98 (Ratio)	0.83	0.98 (Ratio)	915642.20
11/1/2017 23:15:53	R1710236-006	Y_R (360.074 nm)	0.98 (Ratio)	0.83	0.98 (Ratio)	916185.04
11/1/2017 23:15:53	R1710236-006	Zn (213.857 nm)	0.0068 (ppm)	0.74	0.0068 (ppm)	167.7600
11/1/2017 23:19:11	R1710236-007	Ag (328.068 nm)	0.0001 (ppm)	72.42	0.0001 (ppm)	-117.8960
11/1/2017 23:19:11	R1710236-007	Al (394.401 nm)	0.1213 (ppm)	0.66	0.1213 (ppm)	1703.3186
11/1/2017 23:19:11	R1710236-007	As (188.980 nm)	0.1445 (ppm)	1.29	0.1445 (ppm)	130.8586
11/1/2017 23:19:11	R1710236-007	B (249.772 nm)	0.1562 (ppm)	0.12	0.1562 (ppm)	4565.6783
11/1/2017 23:19:11	R1710236-007	Ba (230.424 nm)	0.1532 (ppm)	0.22	0.1532 (ppm)	5368.4101
11/1/2017 23:19:11	R1710236-007	Be (313.107 nm)	0.0000 (ppm)	21.83	0.0000 (ppm)	-450.5605
11/1/2017 23:19:11	R1710236-007	Ca (227.547 nm)	39.9363 (ppm)	0.70	39.9363 (ppm)	2351.5352
11/1/2017 23:19:11	R1710236-007	Cd (214.439 nm)	0.0004 (ppm)	23.46	0.0004 (ppm)	20.5289
11/1/2017 23:19:11	R1710236-007	Co (230.786 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-5.6792
11/1/2017 23:19:11	R1710236-007	Cr (267.716 nm)	0.0002 (ppm)	76.08	0.0002 (ppm)	7.8496
11/1/2017 23:19:11	R1710236-007	Cu (327.395 nm)	0.0004 (ppm)	3.15	0.0004 (ppm)	45.3022
11/1/2017 23:19:11	R1710236-007	Fe (234.350 nm)	17.3420 o (ppm)	0.46	17.3420 (ppm)	201536.5472
11/1/2017 23:19:11	R1710236-007	K (766.491 nm)	18.0979 (ppm)	0.73	18.0979 (ppm)	55936.0517
11/1/2017 23:19:11	R1710236-007	Mg (279.078 nm)	11.3735 (ppm)	0.39	11.3735 (ppm)	22942.2226
11/1/2017 23:19:11	R1710236-007	Mn (257.610 nm)	0.2595 (ppm)	1.29	0.2595 (ppm)	83979.0839
11/1/2017 23:19:11	R1710236-007	Mo (202.032 nm)	0.0010 (ppm)	29.98	0.0010 (ppm)	27.6967
11/1/2017 23:19:11	R1710236-007	Na (588.995 nm)	80.8685 o (ppm)	0.51	80.8685 (ppm)	3704815.6519
11/1/2017 23:19:11	R1710236-007	Ni (230.299 nm)	-0.0094 u (ppm)	11.22	-0.0094 (ppm)	-91.2101
11/1/2017 23:19:11	R1710236-007	Pb (220.353 nm)	-0.0027 u (ppm)	34.00	-0.0027 (ppm)	-0.4474

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:19:11	R1710236-007	Sb (217.582 nm)	-0.0036 u (ppm)	91.68	-0.0036 (ppm)	-0.9470
11/1/2017 23:19:11	R1710236-007	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.6934
11/1/2017 23:19:11	R1710236-007	Sn (189.925 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	-0.8440
11/1/2017 23:19:11	R1710236-007	Sr (216.596 nm)	0.3105 (ppm)	0.51	0.3105 (ppm)	4630.8012
11/1/2017 23:19:11	R1710236-007	Ti (336.122 nm)	0.0066 (ppm)	1.76	0.0066 (ppm)	1017.2508
11/1/2017 23:19:11	R1710236-007	Tl (351.923 nm)	-0.0037 u (ppm)	12.47	-0.0037 (ppm)	4.1890
11/1/2017 23:19:11	R1710236-007	V (292.401 nm)	0.0008 (ppm)	13.22	0.0008 (ppm)	138.6560
11/1/2017 23:19:11	R1710236-007	Y (360.074 nm)	0.98 (Ratio)	0.93	0.98 (Ratio)	913919.92
11/1/2017 23:19:11	R1710236-007	Y_R (360.074 nm)	0.98 (Ratio)	0.92	0.98 (Ratio)	914490.74
11/1/2017 23:19:11	R1710236-007	Zn (213.857 nm)	0.0052 (ppm)	1.04	0.0052 (ppm)	121.5079
11/1/2017 23:22:30	R1710236-008	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-120.0448
11/1/2017 23:22:30	R1710236-008	Al (394.401 nm)	0.0227 (ppm)	1.93	0.0227 (ppm)	386.6849
11/1/2017 23:22:30	R1710236-008	As (188.980 nm)	0.1438 (ppm)	1.41	0.1438 (ppm)	130.2346
11/1/2017 23:22:30	R1710236-008	B (249.772 nm)	0.1576 (ppm)	0.65	0.1576 (ppm)	4608.4132
11/1/2017 23:22:30	R1710236-008	Ba (230.424 nm)	0.1515 (ppm)	0.75	0.1515 (ppm)	5310.5351
11/1/2017 23:22:30	R1710236-008	Be (313.107 nm)	0.0000 (ppm)	71.75	0.0000 (ppm)	-479.9033
11/1/2017 23:22:30	R1710236-008	Ca (227.547 nm)	40.2197 (ppm)	0.77	40.2197 (ppm)	2368.1755
11/1/2017 23:22:30	R1710236-008	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	15.4117
11/1/2017 23:22:30	R1710236-008	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.3104
11/1/2017 23:22:30	R1710236-008	Cr (267.716 nm)	-0.0001 u (ppm)	61.36	-0.0001 (ppm)	-7.8557
11/1/2017 23:22:30	R1710236-008	Cu (327.395 nm)	0.0003 (ppm)	36.93	0.0003 (ppm)	39.1437
11/1/2017 23:22:30	R1710236-008	Fe (234.350 nm)	16.8190 o (ppm)	0.54	16.8190 (ppm)	195460.5219
11/1/2017 23:22:30	R1710236-008	K (766.491 nm)	18.2097 (ppm)	1.08	18.2097 (ppm)	56281.1605
11/1/2017 23:22:30	R1710236-008	Mg (279.078 nm)	11.4433 (ppm)	0.57	11.4433 (ppm)	23083.1248
11/1/2017 23:22:30	R1710236-008	Mn (257.610 nm)	0.2536 (ppm)	1.01	0.2536 (ppm)	82090.9834
11/1/2017 23:22:30	R1710236-008	Mo (202.032 nm)	0.0010 (ppm)	27.17	0.0010 (ppm)	27.5146
11/1/2017 23:22:30	R1710236-008	Na (588.995 nm)	81.6105 o (ppm)	0.80	81.6105 (ppm)	3738867.2889
11/1/2017 23:22:30	R1710236-008	Ni (230.299 nm)	-0.0092 u (ppm)	19.49	-0.0092 (ppm)	-90.0734
11/1/2017 23:22:30	R1710236-008	Pb (220.353 nm)	-0.0018 u (ppm)	35.82	-0.0018 (ppm)	1.6187
11/1/2017 23:22:30	R1710236-008	Sb (217.582 nm)	-0.0034 u (ppm)	77.02	-0.0034 (ppm)	-0.7792
11/1/2017 23:22:30	R1710236-008	Se (196.026 nm)	-0.0033 u (ppm)	26.33	-0.0033 (ppm)	2.6710
11/1/2017 23:22:30	R1710236-008	Sn (189.925 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	-0.9249
11/1/2017 23:22:30	R1710236-008	Sr (216.596 nm)	0.3123 (ppm)	0.53	0.3123 (ppm)	4657.7492
11/1/2017 23:22:30	R1710236-008	Ti (336.122 nm)	0.0012 (ppm)	4.76	0.0012 (ppm)	-163.1807
11/1/2017 23:22:30	R1710236-008	Tl (351.923 nm)	-0.0029 u (ppm)	27.76	-0.0029 (ppm)	6.4457
11/1/2017 23:22:30	R1710236-008	V (292.401 nm)	0.0007 (ppm)	30.46	0.0007 (ppm)	136.7395
11/1/2017 23:22:30	R1710236-008	Y (360.074 nm)	0.98 (Ratio)	0.89	0.98 (Ratio)	913173.58
11/1/2017 23:22:30	R1710236-008	Y_R (360.074 nm)	0.98 (Ratio)	0.88	0.98 (Ratio)	913722.65
11/1/2017 23:22:30	R1710236-008	Zn (213.857 nm)	0.0056 (ppm)	1.89	0.0056 (ppm)	131.9061
11/1/2017 23:25:49	R1710236-009	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-119.4647
11/1/2017 23:25:49	R1710236-009	Al (394.401 nm)	0.1476 (ppm)	0.74	0.1476 (ppm)	2054.7879
11/1/2017 23:25:49	R1710236-009	As (188.980 nm)	0.0081 (ppm)	31.34	0.0081 (ppm)	4.6131
11/1/2017 23:25:49	R1710236-009	B (249.772 nm)	0.0038 (ppm)	5.28	0.0038 (ppm)	201.0691
11/1/2017 23:25:49	R1710236-009	Ba (230.424 nm)	0.0148 (ppm)	2.55	0.0148 (ppm)	526.9745
11/1/2017 23:25:49	R1710236-009	Be (313.107 nm)	0.0000 (ppm)	8.22	0.0000 (ppm)	-490.3539
11/1/2017 23:25:49	R1710236-009	Ca (227.547 nm)	16.6788 (ppm)	0.83	16.6788 (ppm)	985.6760
11/1/2017 23:25:49	R1710236-009	Cd (214.439 nm)	0.0002 (ppm)	29.42	0.0002 (ppm)	16.0006
11/1/2017 23:25:49	R1710236-009	Co (230.786 nm)	0.0067 (ppm)	2.36	0.0067 (ppm)	67.4267
11/1/2017 23:25:49	R1710236-009	Cr (267.716 nm)	-0.0003 u (ppm)	28.60	-0.0003 (ppm)	-15.5765
11/1/2017 23:25:49	R1710236-009	Cu (327.395 nm)	0.0015 (ppm)	2.35	0.0015 (ppm)	117.6774
11/1/2017 23:25:49	R1710236-009	Fe (234.350 nm)	0.5151 (ppm)	0.57	0.5151 (ppm)	6056.3719

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:25:49	R1710236-009	K (766.491 nm)	2.6745 (ppm)	0.71	2.6745 (ppm)	8315.2312
11/1/2017 23:25:49	R1710236-009	Mg (279.078 nm)	12.9982 (ppm)	0.44	12.9982 (ppm)	26220.4293
11/1/2017 23:25:49	R1710236-009	Mn (257.610 nm)	1.3284 (ppm)	0.35	1.3284 (ppm)	429810.5137
11/1/2017 23:25:49	R1710236-009	Mo (202.032 nm)	0.0010 (ppm)	8.51	0.0010 (ppm)	27.9788
11/1/2017 23:25:49	R1710236-009	Na (588.995 nm)	13.3769 (ppm)	0.76	13.3769 (ppm)	607846.4354
11/1/2017 23:25:49	R1710236-009	Ni (230.299 nm)	-0.0125 u (ppm)	10.62	-0.0125 (ppm)	-112.4675
11/1/2017 23:25:49	R1710236-009	Pb (220.353 nm)	-0.0015 u (ppm)	31.76	-0.0015 (ppm)	2.2187
11/1/2017 23:25:49	R1710236-009	Sb (217.582 nm)	-0.0050 u (ppm)	39.86	-0.0050 (ppm)	-3.0028
11/1/2017 23:25:49	R1710236-009	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	4.3482
11/1/2017 23:25:49	R1710236-009	Sn (189.925 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	-1.4365
11/1/2017 23:25:49	R1710236-009	Sr (216.596 nm)	0.1638 (ppm)	0.66	0.1638 (ppm)	2442.5126
11/1/2017 23:25:49	R1710236-009	Ti (336.122 nm)	0.0075 (ppm)	1.77	0.0075 (ppm)	1226.4532
11/1/2017 23:25:49	R1710236-009	Tl (351.923 nm)	-0.0041 u (ppm)	21.84	-0.0041 (ppm)	3.0791
11/1/2017 23:25:49	R1710236-009	V (292.401 nm)	0.0003 (ppm)	44.69	0.0003 (ppm)	120.8374
11/1/2017 23:25:49	R1710236-009	Y (360.074 nm)	1.00 (Ratio)	0.80	1.00 (Ratio)	939309.71
11/1/2017 23:25:49	R1710236-009	Y_R (360.074 nm)	1.00 (Ratio)	0.80	1.00 (Ratio)	939675.27
11/1/2017 23:25:49	R1710236-009	Zn (213.857 nm)	0.0051 (ppm)	1.79	0.0051 (ppm)	117.5892
11/1/2017 23:29:08	R1710236-010	Ag (328.068 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-125.3724
11/1/2017 23:29:08	R1710236-010	Al (394.401 nm)	0.0153 (ppm)	2.05	0.0153 (ppm)	287.6709
11/1/2017 23:29:08	R1710236-010	As (188.980 nm)	0.0080 (ppm)	32.12	0.0080 (ppm)	4.4894
11/1/2017 23:29:08	R1710236-010	B (249.772 nm)	0.0041 (ppm)	1.27	0.0041 (ppm)	208.1911
11/1/2017 23:29:08	R1710236-010	Ba (230.424 nm)	0.0135 (ppm)	1.73	0.0135 (ppm)	479.7808
11/1/2017 23:29:08	R1710236-010	Be (313.107 nm)	0.0000 (ppm)	73.57	0.0000 (ppm)	-494.8124
11/1/2017 23:29:08	R1710236-010	Ca (227.547 nm)	16.6684 (ppm)	0.63	16.6684 (ppm)	985.0651
11/1/2017 23:29:08	R1710236-010	Cd (214.439 nm)	-0.0001 u (ppm)	45.69	-0.0001 (ppm)	11.2534
11/1/2017 23:29:08	R1710236-010	Co (230.786 nm)	0.0064 (ppm)	3.10	0.0064 (ppm)	64.3388
11/1/2017 23:29:08	R1710236-010	Cr (267.716 nm)	0.0002 (ppm)	46.98	0.0002 (ppm)	7.5308
11/1/2017 23:29:08	R1710236-010	Cu (327.395 nm)	0.0003 (ppm)	18.49	0.0003 (ppm)	40.8211
11/1/2017 23:29:08	R1710236-010	Fe (234.350 nm)	0.4125 (ppm)	0.54	0.4125 (ppm)	4865.1707
11/1/2017 23:29:08	R1710236-010	K (766.491 nm)	2.6331 (ppm)	0.43	2.6331 (ppm)	8187.2599
11/1/2017 23:29:08	R1710236-010	Mg (279.078 nm)	12.8948 (ppm)	0.55	12.8948 (ppm)	26011.9606
11/1/2017 23:29:08	R1710236-010	Mn (257.610 nm)	1.3025 (ppm)	0.32	1.3025 (ppm)	421429.4992
11/1/2017 23:29:08	R1710236-010	Mo (202.032 nm)	0.0016 (ppm)	9.44	0.0016 (ppm)	34.1544
11/1/2017 23:29:08	R1710236-010	Na (588.995 nm)	13.4004 (ppm)	0.93	13.4004 (ppm)	608921.3035
11/1/2017 23:29:08	R1710236-010	Ni (230.299 nm)	-0.0081 u (ppm)	17.62	-0.0081 (ppm)	-82.1442
11/1/2017 23:29:08	R1710236-010	Pb (220.353 nm)	-0.0020 u (ppm)	45.56	-0.0020 (ppm)	1.2202
11/1/2017 23:29:08	R1710236-010	Sb (217.582 nm)	-0.0026 u (ppm)	53.85	-0.0026 (ppm)	0.3993
11/1/2017 23:29:08	R1710236-010	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.9652
11/1/2017 23:29:08	R1710236-010	Sn (189.925 nm)	-0.0009 u (ppm)	78.73	-0.0009 (ppm)	-1.2924
11/1/2017 23:29:08	R1710236-010	Sr (216.596 nm)	0.1627 (ppm)	0.88	0.1627 (ppm)	2425.5412
11/1/2017 23:29:08	R1710236-010	Ti (336.122 nm)	0.0006 (ppm)	4.84	0.0006 (ppm)	-282.6869
11/1/2017 23:29:08	R1710236-010	Tl (351.923 nm)	-0.0035 u (ppm)	47.80	-0.0035 (ppm)	4.6453
11/1/2017 23:29:08	R1710236-010	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	109.8962
11/1/2017 23:29:08	R1710236-010	Y (360.074 nm)	1.01 (Ratio)	0.79	1.01 (Ratio)	946047.98
11/1/2017 23:29:08	R1710236-010	Y_R (360.074 nm)	1.01 (Ratio)	0.79	1.01 (Ratio)	946378.47
11/1/2017 23:29:08	R1710236-010	Zn (213.857 nm)	0.0041 (ppm)	1.83	0.0041 (ppm)	88.4869
11/1/2017 23:32:27	Continuing Calibration Verification1	Ag (328.068 nm)	0.4835 (ppm)	0.47	0.4835 (ppm)	35392.9203
11/1/2017 23:32:27	Continuing Calibration Verification1	Al (394.401 nm)	9.4637 (ppm)	0.67	9.4637 (ppm)	126456.4240
11/1/2017 23:32:27	Continuing Calibration Verification1	As (188.980 nm)	0.9441 (ppm)	0.62	0.9441 (ppm)	870.8995
11/1/2017 23:32:27	Continuing Calibration Verification1	B (249.772 nm)	2.3719 (ppm)	0.52	2.3719 (ppm)	68063.2288
11/1/2017 23:32:27	Continuing Calibration Verification1	Ba (230.424 nm)	10.0731 (ppm)	0.61	10.0731 (ppm)	352541.9392

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:32:27	Continuing Calibration Verification1	Be (313.107 nm)	0.2496 (ppm)	0.53	0.2496 (ppm)	378076.1155
11/1/2017 23:32:27	Continuing Calibration Verification1	Ca (227.547 nm)	24.0349 (ppm)	0.80	24.0349 (ppm)	1417.6834
11/1/2017 23:32:27	Continuing Calibration Verification1	Cd (214.439 nm)	0.4849 (ppm)	0.42	0.4849 (ppm)	11038.8638
11/1/2017 23:32:27	Continuing Calibration Verification1	Co (230.786 nm)	2.5316 (ppm)	0.51	2.5316 (ppm)	26054.1183
11/1/2017 23:32:27	Continuing Calibration Verification1	Cr (267.716 nm)	0.4934 (ppm)	0.43	0.4934 (ppm)	25731.2219
11/1/2017 23:32:27	Continuing Calibration Verification1	Cu (327.395 nm)	1.1962 (ppm)	0.92	1.1962 (ppm)	75151.4687
11/1/2017 23:32:27	Continuing Calibration Verification1	Fe (234.350 nm)	4.7447 (ppm)	0.48	4.7447 (ppm)	55192.8448
11/1/2017 23:32:27	Continuing Calibration Verification1	K (766.491 nm)	24.7187 (ppm)	0.78	24.7187 (ppm)	76378.0630
11/1/2017 23:32:27	Continuing Calibration Verification1	Mg (279.078 nm)	24.4151 (ppm)	0.49	24.4151 (ppm)	49257.2251
11/1/2017 23:32:27	Continuing Calibration Verification1	Mn (257.610 nm)	0.7438 (ppm)	0.35	0.7438 (ppm)	240689.9045
11/1/2017 23:32:27	Continuing Calibration Verification1	Mo (202.032 nm)	2.3556 (ppm)	0.48	2.3556 (ppm)	25221.2437
11/1/2017 23:32:27	Continuing Calibration Verification1	Na (588.995 nm)	24.8784 (ppm)	0.81	24.8784 (ppm)	1135612.7563
11/1/2017 23:32:27	Continuing Calibration Verification1	Ni (230.299 nm)	1.9890 (ppm)	0.47	1.9890 (ppm)	13775.8517
11/1/2017 23:32:27	Continuing Calibration Verification1	Pb (220.353 nm)	0.4876 (ppm)	0.55	0.4876 (ppm)	1093.9754
11/1/2017 23:32:27	Continuing Calibration Verification1	Sb (217.582 nm)	4.8194 (ppm)	0.65	4.8194 (ppm)	6879.4519
11/1/2017 23:32:27	Continuing Calibration Verification1	Se (196.026 nm)	0.4715 (ppm)	0.48	0.4715 (ppm)	417.4363
11/1/2017 23:32:27	Continuing Calibration Verification1	Sn (189.925 nm)	4.9359 (ppm)	0.33	4.9359 (ppm)	6289.3860
11/1/2017 23:32:27	Continuing Calibration Verification1	Sr (216.596 nm)	2.4477 (ppm)	0.14	2.4477 (ppm)	36511.2214
11/1/2017 23:32:27	Continuing Calibration Verification1	Ti (336.122 nm)	2.4431 (ppm)	0.62	2.4431 (ppm)	535355.6885
11/1/2017 23:32:27	Continuing Calibration Verification1	Tl (351.923 nm)	0.9789 (ppm)	0.75	0.9789 (ppm)	2793.8015
11/1/2017 23:32:27	Continuing Calibration Verification1	V (292.401 nm)	2.4812 (ppm)	0.55	2.4812 (ppm)	89426.3123
11/1/2017 23:32:27	Continuing Calibration Verification1	Y (360.074 nm)	0.98 (Ratio)	1.01	0.98 (Ratio)	920581.54
11/1/2017 23:32:27	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98 (Ratio)	1.01	0.98 (Ratio)	920846.50
11/1/2017 23:32:27	Continuing Calibration Verification1	Zn (213.857 nm)	0.9777 (ppm)	0.49	0.9777 (ppm)	28377.1092
11/1/2017 23:35:46	Continuing Calibration Blank1	Ag (328.068 nm)	0.0001 (ppm)	93.51	0.0001 (ppm)	-117.0521
11/1/2017 23:35:46	Continuing Calibration Blank1	Al (394.401 nm)	-0.0007 u (ppm)	15.29	-0.0007 (ppm)	73.9685
11/1/2017 23:35:46	Continuing Calibration Blank1	As (188.980 nm)	0.0018 (ppm)	68.94	0.0018 (ppm)	-1.2711
11/1/2017 23:35:46	Continuing Calibration Blank1	B (249.772 nm)	0.0009 (ppm)	70.34	0.0009 (ppm)	116.8793
11/1/2017 23:35:46	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002 (ppm)	28.05	0.0002 (ppm)	16.4116
11/1/2017 23:35:46	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	27.57	0.0000 (ppm)	-486.4629
11/1/2017 23:35:46	Continuing Calibration Blank1	Ca (227.547 nm)	-0.0426 u (ppm)	59.11	-0.0426 (ppm)	3.6700
11/1/2017 23:35:46	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	32.24	0.0001 (ppm)	14.4837
11/1/2017 23:35:46	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.4610
11/1/2017 23:35:46	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	1.9001
11/1/2017 23:35:46	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	19.5618
11/1/2017 23:35:46	Continuing Calibration Blank1	Fe (234.350 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	75.8270
11/1/2017 23:35:46	Continuing Calibration Blank1	K (766.491 nm)	0.0172 (ppm)	63.84	0.0172 (ppm)	110.6180
11/1/2017 23:35:46	Continuing Calibration Blank1	Mg (279.078 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	-3.9388
11/1/2017 23:35:46	Continuing Calibration Blank1	Mn (257.610 nm)	0.0030 (ppm)	30.01	0.0030 (ppm)	1016.4554
11/1/2017 23:35:46	Continuing Calibration Blank1	Mo (202.032 nm)	0.0022 (ppm)	20.10	0.0022 (ppm)	40.1459
11/1/2017 23:35:46	Continuing Calibration Blank1	Na (588.995 nm)	0.0115 (ppm)	10.87	0.0115 (ppm)	-5449.0618
11/1/2017 23:35:46	Continuing Calibration Blank1	Ni (230.299 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	-24.5017
11/1/2017 23:35:46	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0003 u (ppm)	84.82	-0.0003 (ppm)	4.9688
11/1/2017 23:35:46	Continuing Calibration Blank1	Sb (217.582 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	2.7879
11/1/2017 23:35:46	Continuing Calibration Blank1	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	4.5039
11/1/2017 23:35:46	Continuing Calibration Blank1	Sn (189.925 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	1.1812
11/1/2017 23:35:46	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.1476
11/1/2017 23:35:46	Continuing Calibration Blank1	Ti (336.122 nm)	0.0007 (ppm)	1.90	0.0007 (ppm)	-265.2180
11/1/2017 23:35:46	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0031 u (ppm)	> 100.00	-0.0031 (ppm)	5.8969
11/1/2017 23:35:46	Continuing Calibration Blank1	V (292.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	103.5180
11/1/2017 23:35:46	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.92	1.03 (Ratio)	963187.60

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:35:46	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.91	1.03 (Ratio)	963233.91
11/1/2017 23:35:46	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	39.44	0.0003 (ppm)	-23.1040
11/1/2017 23:39:05	R1710236-010L	Ag (328.068 nm)	0.0000 (ppm)	32.59	0.0000 (ppm)	-122.1316
11/1/2017 23:39:05	R1710236-010L	Al (394.401 nm)	0.0027 (ppm)	10.25	0.0027 (ppm)	119.4038
11/1/2017 23:39:05	R1710236-010L	As (188.980 nm)	0.0030 (ppm)	56.75	0.0030 (ppm)	-0.1153
11/1/2017 23:39:05	R1710236-010L	B (249.772 nm)	0.0003 (ppm)	54.47	0.0003 (ppm)	98.9420
11/1/2017 23:39:05	R1710236-010L	Ba (230.424 nm)	0.0026 (ppm)	3.21	0.0026 (ppm)	100.3059
11/1/2017 23:39:05	R1710236-010L	Be (313.107 nm)	0.0000 (ppm)	84.68	0.0000 (ppm)	-496.6556
11/1/2017 23:39:05	R1710236-010L	Ca (227.547 nm)	3.1109 (ppm)	0.64	3.1109 (ppm)	188.8635
11/1/2017 23:39:05	R1710236-010L	Cd (214.439 nm)	0.0001 (ppm)	81.25	0.0001 (ppm)	13.8860
11/1/2017 23:39:05	R1710236-010L	Co (230.786 nm)	0.0011 (ppm)	15.85	0.0011 (ppm)	9.8322
11/1/2017 23:39:05	R1710236-010L	Cr (267.716 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	3.7267
11/1/2017 23:39:05	R1710236-010L	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	25.3545
11/1/2017 23:39:05	R1710236-010L	Fe (234.350 nm)	0.0777 (ppm)	1.64	0.0777 (ppm)	974.8724
11/1/2017 23:39:05	R1710236-010L	K (766.491 nm)	0.4853 (ppm)	1.21	0.4853 (ppm)	1555.9588
11/1/2017 23:39:05	R1710236-010L	Mg (279.078 nm)	2.4553 (ppm)	1.09	2.4553 (ppm)	4947.2608
11/1/2017 23:39:05	R1710236-010L	Mn (257.610 nm)	0.2565 (ppm)	1.45	0.2565 (ppm)	83014.7328
11/1/2017 23:39:05	R1710236-010L	Mo (202.032 nm)	0.0004 (ppm)	60.90	0.0004 (ppm)	21.0022
11/1/2017 23:39:05	R1710236-010L	Na (588.995 nm)	2.6118 (ppm)	0.77	2.6118 (ppm)	113866.4258
11/1/2017 23:39:05	R1710236-010L	Ni (230.299 nm)	-0.0010 u (ppm)	79.73	-0.0010 (ppm)	-33.0984
11/1/2017 23:39:05	R1710236-010L	Pb (220.353 nm)	-0.0006 u (ppm)	42.35	-0.0006 (ppm)	4.3261
11/1/2017 23:39:05	R1710236-010L	Sb (217.582 nm)	-0.0023 u (ppm)	33.97	-0.0023 (ppm)	0.8591
11/1/2017 23:39:05	R1710236-010L	Se (196.026 nm)	0.0022 (ppm)	95.25	0.0022 (ppm)	7.4572
11/1/2017 23:39:05	R1710236-010L	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.2021
11/1/2017 23:39:05	R1710236-010L	Sr (216.596 nm)	0.0314 (ppm)	2.67	0.0314 (ppm)	467.3079
11/1/2017 23:39:05	R1710236-010L	Tl (336.122 nm)	0.0001 (ppm)	61.34	0.0001 (ppm)	-390.1635
11/1/2017 23:39:05	R1710236-010L	Tl (351.923 nm)	-0.0026 u (ppm)	> 100.00	-0.0026 (ppm)	7.1818
11/1/2017 23:39:05	R1710236-010L	V (292.401 nm)	-0.0003 u (ppm)	35.41	-0.0003 (ppm)	99.3534
11/1/2017 23:39:05	R1710236-010L	Y (360.074 nm)	1.03 (Ratio)	0.96	1.03 (Ratio)	963444.70
11/1/2017 23:39:05	R1710236-010L	Y_R (360.074 nm)	1.03 (Ratio)	0.96	1.03 (Ratio)	963488.48
11/1/2017 23:39:05	R1710236-010L	Zn (213.857 nm)	0.0010 (ppm)	5.00	0.0010 (ppm)	-0.5796
11/1/2017 23:42:23	PBW-302021 RPT	Ag (328.068 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-122.8584
11/1/2017 23:42:23	PBW-302021 RPT	Al (394.401 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	85.6659
11/1/2017 23:42:23	PBW-302021 RPT	As (188.980 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.9258
11/1/2017 23:42:23	PBW-302021 RPT	B (249.772 nm)	-0.0008 u (ppm)	4.47	-0.0008 (ppm)	66.6584
11/1/2017 23:42:23	PBW-302021 RPT	Ba (230.424 nm)	-0.0001 u (ppm)	69.59	-0.0001 (ppm)	3.3303
11/1/2017 23:42:23	PBW-302021 RPT	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-504.5012
11/1/2017 23:42:23	PBW-302021 RPT	Ca (227.547 nm)	-0.0258 u (ppm)	> 100.00	-0.0258 (ppm)	4.6552
11/1/2017 23:42:23	PBW-302021 RPT	Cd (214.439 nm)	-0.0001 u (ppm)	56.01	-0.0001 (ppm)	10.9581
11/1/2017 23:42:23	PBW-302021 RPT	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.2811
11/1/2017 23:42:23	PBW-302021 RPT	Cr (267.716 nm)	-0.0001 u (ppm)	56.60	-0.0001 (ppm)	-5.2061
11/1/2017 23:42:23	PBW-302021 RPT	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	18.2361
11/1/2017 23:42:23	PBW-302021 RPT	Fe (234.350 nm)	-0.0053 u (ppm)	2.49	-0.0053 (ppm)	11.2826
11/1/2017 23:42:23	PBW-302021 RPT	K (766.491 nm)	-0.0046 u (ppm)	> 100.00	-0.0046 (ppm)	43.4400
11/1/2017 23:42:23	PBW-302021 RPT	Mg (279.078 nm)	0.0025 (ppm)	62.32	0.0025 (ppm)	-1.8901
11/1/2017 23:42:23	PBW-302021 RPT	Mn (257.610 nm)	0.0078 (ppm)	35.25	0.0078 (ppm)	2546.1229
11/1/2017 23:42:23	PBW-302021 RPT	Mo (202.032 nm)	-0.0005 u (ppm)	20.07	-0.0005 (ppm)	11.1579
11/1/2017 23:42:23	PBW-302021 RPT	Na (588.995 nm)	0.0160 (ppm)	9.36	0.0160 (ppm)	-5246.4705
11/1/2017 23:42:23	PBW-302021 RPT	Ni (230.299 nm)	0.0011 (ppm)	24.78	0.0011 (ppm)	-18.6645
11/1/2017 23:42:23	PBW-302021 RPT	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	3.9322
11/1/2017 23:42:23	PBW-302021 RPT	Sb (217.582 nm)	-0.0017 u (ppm)	36.22	-0.0017 (ppm)	1.6755

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:42:23	PBW-302021 RPT	Se (196.026 nm)	-0.0033 u (ppm)	98.52	-0.0033 (ppm)	2.6763
11/1/2017 23:42:23	PBW-302021 RPT	Sn (189.925 nm)	0.0003 (ppm)	79.72	0.0003 (ppm)	0.2676
11/1/2017 23:42:23	PBW-302021 RPT	Sr (216.596 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	1.0838
11/1/2017 23:42:23	PBW-302021 RPT	Ti (336.122 nm)	0.0004 (ppm)	17.46	0.0004 (ppm)	-328.6581
11/1/2017 23:42:23	PBW-302021 RPT	Tl (351.923 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	10.0354
11/1/2017 23:42:23	PBW-302021 RPT	V (292.401 nm)	-0.0003 u (ppm)	34.85	-0.0003 (ppm)	97.8505
11/1/2017 23:42:23	PBW-302021 RPT	Y (360.074 nm)	1.04 (Ratio)	0.81	1.04 (Ratio)	976144.52
11/1/2017 23:42:23	PBW-302021 RPT	Y_R (360.074 nm)	1.04 (Ratio)	0.80	1.04 (Ratio)	976063.36
11/1/2017 23:42:23	PBW-302021 RPT	Zn (213.857 nm)	0.0012 (ppm)	8.02	0.0012 (ppm)	4.0576
11/1/2017 23:45:43	Continuing Calibration Verification1	Ag (328.068 nm)	0.4835 (ppm)	0.35	0.4835 (ppm)	35393.8375
11/1/2017 23:45:43	Continuing Calibration Verification1	Al (394.401 nm)	9.4732 (ppm)	0.29	9.4732 (ppm)	126582.5776
11/1/2017 23:45:43	Continuing Calibration Verification1	As (188.980 nm)	0.9478 (ppm)	0.65	0.9478 (ppm)	874.3428
11/1/2017 23:45:43	Continuing Calibration Verification1	B (249.772 nm)	2.3730 (ppm)	0.24	2.3730 (ppm)	68093.6765
11/1/2017 23:45:43	Continuing Calibration Verification1	Ba (230.424 nm)	10.0546 (ppm)	0.17	10.0546 (ppm)	351894.0631
11/1/2017 23:45:43	Continuing Calibration Verification1	Be (313.107 nm)	0.2493 (ppm)	0.24	0.2493 (ppm)	377580.3777
11/1/2017 23:45:43	Continuing Calibration Verification1	Ca (227.547 nm)	24.1021 (ppm)	0.41	24.1021 (ppm)	1421.6323
11/1/2017 23:45:43	Continuing Calibration Verification1	Cd (214.439 nm)	0.4838 (ppm)	0.23	0.4838 (ppm)	11015.6048
11/1/2017 23:45:43	Continuing Calibration Verification1	Co (230.786 nm)	2.5303 (ppm)	0.17	2.5303 (ppm)	26040.8339
11/1/2017 23:45:43	Continuing Calibration Verification1	Cr (267.716 nm)	0.4924 (ppm)	0.19	0.4924 (ppm)	25679.4813
11/1/2017 23:45:43	Continuing Calibration Verification1	Cu (327.395 nm)	1.1996 (ppm)	0.61	1.1996 (ppm)	75366.1103
11/1/2017 23:45:43	Continuing Calibration Verification1	Fe (234.350 nm)	4.7363 (ppm)	0.26	4.7363 (ppm)	55094.6499
11/1/2017 23:45:43	Continuing Calibration Verification1	K (766.491 nm)	24.7431 (ppm)	0.42	24.7431 (ppm)	76453.5496
11/1/2017 23:45:43	Continuing Calibration Verification1	Mg (279.078 nm)	24.3854 (ppm)	0.28	24.3854 (ppm)	49197.4895
11/1/2017 23:45:43	Continuing Calibration Verification1	Mn (257.610 nm)	0.7421 (ppm)	0.16	0.7421 (ppm)	240125.3642
11/1/2017 23:45:43	Continuing Calibration Verification1	Mo (202.032 nm)	2.3537 (ppm)	0.19	2.3537 (ppm)	25201.2856
11/1/2017 23:45:43	Continuing Calibration Verification1	Na (588.995 nm)	25.0164 (ppm)	0.73	25.0164 (ppm)	1141942.1634
11/1/2017 23:45:43	Continuing Calibration Verification1	Ni (230.299 nm)	1.9893 (ppm)	0.06	1.9893 (ppm)	13778.1641
11/1/2017 23:45:43	Continuing Calibration Verification1	Pb (220.353 nm)	0.4865 (ppm)	0.76	0.4865 (ppm)	1091.6609
11/1/2017 23:45:43	Continuing Calibration Verification1	Sb (217.582 nm)	4.8156 (ppm)	0.46	4.8156 (ppm)	6874.0363
11/1/2017 23:45:43	Continuing Calibration Verification1	Se (196.026 nm)	0.4757 (ppm)	0.46	0.4757 (ppm)	421.0205
11/1/2017 23:45:43	Continuing Calibration Verification1	Sn (189.925 nm)	4.9276 (ppm)	0.19	4.9276 (ppm)	6278.7876
11/1/2017 23:45:43	Continuing Calibration Verification1	Sr (216.596 nm)	2.4432 (ppm)	0.31	2.4432 (ppm)	36445.4959
11/1/2017 23:45:43	Continuing Calibration Verification1	Ti (336.122 nm)	2.4544 (ppm)	0.61	2.4544 (ppm)	537843.3612
11/1/2017 23:45:43	Continuing Calibration Verification1	Tl (351.923 nm)	0.9815 (ppm)	0.46	0.9815 (ppm)	2801.0929
11/1/2017 23:45:43	Continuing Calibration Verification1	V (292.401 nm)	2.4775 (ppm)	0.10	2.4775 (ppm)	89293.3171
11/1/2017 23:45:43	Continuing Calibration Verification1	Y (360.074 nm)	0.98 (Ratio)	0.73	0.98 (Ratio)	919590.82
11/1/2017 23:45:43	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98 (Ratio)	0.73	0.98 (Ratio)	919636.15
11/1/2017 23:45:43	Continuing Calibration Verification1	Zn (213.857 nm)	0.9768 (ppm)	0.22	0.9768 (ppm)	28351.1956
11/1/2017 23:49:02	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002 (ppm)	12.34	0.0002 (ppm)	-113.0721
11/1/2017 23:49:02	Continuing Calibration Blank1	Al (394.401 nm)	-0.0005 u (ppm)	28.18	-0.0005 (ppm)	76.8992
11/1/2017 23:49:02	Continuing Calibration Blank1	As (188.980 nm)	0.0018 (ppm)	55.42	0.0018 (ppm)	-1.2294
11/1/2017 23:49:02	Continuing Calibration Blank1	B (249.772 nm)	0.0009 (ppm)	67.98	0.0009 (ppm)	115.3095
11/1/2017 23:49:02	Continuing Calibration Blank1	Ba (230.424 nm)	0.0002 (ppm)	45.15	0.0002 (ppm)	15.2294
11/1/2017 23:49:02	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	84.29	0.0000 (ppm)	-490.4637
11/1/2017 23:49:02	Continuing Calibration Blank1	Ca (227.547 nm)	0.0286 (ppm)	79.88	0.0286 (ppm)	7.8484
11/1/2017 23:49:02	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	22.33	0.0001 (ppm)	15.4075
11/1/2017 23:49:02	Continuing Calibration Blank1	Co (230.786 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-0.3537
11/1/2017 23:49:02	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-0.4455
11/1/2017 23:49:02	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	22.0692
11/1/2017 23:49:02	Continuing Calibration Blank1	Fe (234.350 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	72.9226
11/1/2017 23:49:02	Continuing Calibration Blank1	K (766.491 nm)	0.0175 (ppm)	11.90	0.0175 (ppm)	111.5496

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:49:02	Continuing Calibration Blank1	Mg (279.078 nm)	0.0025 (ppm)	8.01	0.0025 (ppm)	-2.0361
11/1/2017 23:49:02	Continuing Calibration Blank1	Mn (257.610 nm)	0.0028 (ppm)	30.38	0.0028 (ppm)	947.9513
11/1/2017 23:49:02	Continuing Calibration Blank1	Mo (202.032 nm)	0.0025 (ppm)	5.01	0.0025 (ppm)	43.6450
11/1/2017 23:49:02	Continuing Calibration Blank1	Na (588.995 nm)	0.0117 (ppm)	11.11	0.0117 (ppm)	-5442.4280
11/1/2017 23:49:02	Continuing Calibration Blank1	Ni (230.299 nm)	0.0006 (ppm)	55.01	0.0006 (ppm)	-21.7359
11/1/2017 23:49:02	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.7641
11/1/2017 23:49:02	Continuing Calibration Blank1	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	3.6704
11/1/2017 23:49:02	Continuing Calibration Blank1	Se (196.026 nm)	-0.0016 u (ppm)	65.09	-0.0016 (ppm)	4.1515
11/1/2017 23:49:02	Continuing Calibration Blank1	Sn (189.925 nm)	0.0006 (ppm)	59.86	0.0006 (ppm)	0.6270
11/1/2017 23:49:02	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.7215
11/1/2017 23:49:02	Continuing Calibration Blank1	Ti (336.122 nm)	0.0008 (ppm)	10.22	0.0008 (ppm)	-244.7954
11/1/2017 23:49:02	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	9.1574
11/1/2017 23:49:02	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	108.5323
11/1/2017 23:49:02	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.76	1.03 (Ratio)	964285.09
11/1/2017 23:49:02	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.75	1.03 (Ratio)	963901.36
11/1/2017 23:49:02	Continuing Calibration Blank1	Zn (213.857 nm)	0.0001 (ppm)	73.73	0.0001 (ppm)	-27.3274
11/1/2017 23:52:21	Contract Required Detection Limit	Ag (328.068 nm)	0.0096 (ppm)	0.59	0.0096 (ppm)	577.2529
11/1/2017 23:52:21	Contract Required Detection Limit	Al (394.401 nm)	0.1714 (ppm)	0.48	0.1714 (ppm)	2372.3601
11/1/2017 23:52:21	Contract Required Detection Limit	As (188.980 nm)	0.0183 (ppm)	2.00	0.0183 (ppm)	14.0108
11/1/2017 23:52:21	Contract Required Detection Limit	B (249.772 nm)	0.1832 (ppm)	0.24	0.1832 (ppm)	5341.5271
11/1/2017 23:52:21	Contract Required Detection Limit	Ba (230.424 nm)	0.2051 (ppm)	0.65	0.2051 (ppm)	7184.8976
11/1/2017 23:52:21	Contract Required Detection Limit	Be (313.107 nm)	0.0047 (ppm)	0.09	0.0047 (ppm)	6676.7003
11/1/2017 23:52:21	Contract Required Detection Limit	Ca (227.547 nm)	0.9516 (ppm)	3.87	0.9516 (ppm)	62.0541
11/1/2017 23:52:21	Contract Required Detection Limit	Cd (214.439 nm)	0.0098 (ppm)	1.28	0.0098 (ppm)	235.5706
11/1/2017 23:52:21	Contract Required Detection Limit	Co (230.786 nm)	0.0492 (ppm)	0.55	0.0492 (ppm)	504.8368
11/1/2017 23:52:21	Contract Required Detection Limit	Cr (267.716 nm)	0.0098 (ppm)	1.69	0.0098 (ppm)	510.6440
11/1/2017 23:52:21	Contract Required Detection Limit	Cu (327.395 nm)	0.0239 (ppm)	1.33	0.0239 (ppm)	1521.8857
11/1/2017 23:52:21	Contract Required Detection Limit	Fe (234.350 nm)	0.0937 (ppm)	0.51	0.0937 (ppm)	1161.8505
11/1/2017 23:52:21	Contract Required Detection Limit	K (766.491 nm)	0.9261 (ppm)	1.52	0.9261 (ppm)	2916.8995
11/1/2017 23:52:21	Contract Required Detection Limit	Mg (279.078 nm)	0.9638 (ppm)	0.47	0.9638 (ppm)	1937.6147
11/1/2017 23:52:21	Contract Required Detection Limit	Mn (257.610 nm) 151	0.0227 R (ppm)	11.58	0.0227 (ppm)	7366.9957 R
11/1/2017 23:52:21	Contract Required Detection Limit	Mo (202.032 nm)	0.0244 (ppm)	0.77	0.0244 (ppm)	277.4188
11/1/2017 23:52:21	Contract Required Detection Limit	Na (588.995 nm)	1.0206 (ppm)	0.75	1.0206 (ppm)	40852.0095
11/1/2017 23:52:21	Contract Required Detection Limit	Ni (230.299 nm)	0.0400 (ppm)	0.72	0.0400 (ppm)	251.7203
11/1/2017 23:52:21	Contract Required Detection Limit	Pb (220.353 nm)	0.0093 (ppm)	6.92	0.0093 (ppm)	26.4039
11/1/2017 23:52:21	Contract Required Detection Limit	Sb (217.582 nm)	0.0557 (ppm)	2.29	0.0557 (ppm)	83.5279
11/1/2017 23:52:21	Contract Required Detection Limit	Se (196.026 nm)	0.0073 R (ppm)	17.45	0.0073 (ppm)	11.8921 R
11/1/2017 23:52:21	Contract Required Detection Limit	Sn (189.925 nm)	0.4876 (ppm)	0.52	0.4876 (ppm)	621.2110
11/1/2017 23:52:21	Contract Required Detection Limit	Sr (216.596 nm)	0.0978 (ppm)	0.43	0.0978 (ppm)	1457.5586
11/1/2017 23:52:21	Contract Required Detection Limit	Ti (336.122 nm)	0.0496 (ppm)	0.34	0.0496 (ppm)	10460.6226
11/1/2017 23:52:21	Contract Required Detection Limit	Tl (351.923 nm)	0.0173 (ppm)	24.31	0.0173 (ppm)	63.7504
11/1/2017 23:52:21	Contract Required Detection Limit	V (292.401 nm)	0.0481 (ppm)	0.66	0.0481 (ppm)	1841.3133
11/1/2017 23:52:21	Contract Required Detection Limit	Y (360.074 nm)	1.03 (Ratio)	0.75	1.03 (Ratio)	967351.19
11/1/2017 23:52:21	Contract Required Detection Limit	Y_R (360.074 nm)	1.03 (Ratio)	0.74	1.03 (Ratio)	966993.64
11/1/2017 23:52:21	Contract Required Detection Limit	Zn (213.857 nm)	0.0187 (ppm)	0.32	0.0187 (ppm)	513.7263
11/1/2017 23:55:40	Interference Check Solution A	Ag (328.068 nm)	0.0002 (ppm)	61.85	0.0002 (ppm)	-114.6466
11/1/2017 23:55:40	Interference Check Solution A	Al (394.401 nm)	261.0833 o (ppm)	0.23	261.0833 (ppm)	3486448.2244
11/1/2017 23:55:40	Interference Check Solution A	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.1633
11/1/2017 23:55:40	Interference Check Solution A	B (249.772 nm)	0.0363 (ppm)	0.82	0.0363 (ppm)	1131.0216
11/1/2017 23:55:40	Interference Check Solution A	Ba (230.424 nm)	0.0003 (ppm)	11.18	0.0003 (ppm)	18.7265
11/1/2017 23:55:40	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	13.40	-0.0001 (ppm)	-589.3725

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:55:40	Interference Check Solution A	Ca (227.547 nm)	266.2313 o (ppm)	0.20	266.2313 (ppm)	15641.3103
11/1/2017 23:55:40	Interference Check Solution A	Cd (214.439 nm)	-0.0012 Ku (ppm)	20.52	-0.0012 (ppm)	-14.8207 K
11/1/2017 23:55:40	Interference Check Solution A	Co (230.786 nm)	-0.0023 u (ppm)	17.69	-0.0023 (ppm)	-25.4432
11/1/2017 23:55:40	Interference Check Solution A	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.8343
11/1/2017 23:55:40	Interference Check Solution A	Cu (327.395 nm)	0.0006 (ppm)	28.30	0.0006 (ppm)	61.0204
11/1/2017 23:55:40	Interference Check Solution A	Fe (234.350 nm)	86.0445 o (ppm)	0.15	86.0445 (ppm)	999659.9473
11/1/2017 23:55:40	Interference Check Solution A	K (766.491 nm)	0.0253 (ppm)	80.92	0.0253 (ppm)	135.4811
11/1/2017 23:55:40	Interference Check Solution A	Mg (279.078 nm)	255.0636 o (ppm)	0.50	255.0636 (ppm)	514655.7971
11/1/2017 23:55:40	Interference Check Solution A	Mn (257.610 nm)	0.0096 (ppm)	28.40	0.0096 (ppm)	3147.7899
11/1/2017 23:55:40	Interference Check Solution A	Mo (202.032 nm)	0.0010 (ppm)	42.22	0.0010 (ppm)	27.4533
11/1/2017 23:55:40	Interference Check Solution A	Na (588.995 nm)	0.0156 (ppm)	4.70	0.0156 (ppm)	-5261.3060
11/1/2017 23:55:40	Interference Check Solution A	Ni (230.299 nm)	-0.0022 u (ppm)	35.50	-0.0022 (ppm)	-41.5767
11/1/2017 23:55:40	Interference Check Solution A	Pb (220.353 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	2.5181
11/1/2017 23:55:40	Interference Check Solution A	Sb (217.582 nm)	-0.0031 u (ppm)	4.88	-0.0031 (ppm)	-0.2619
11/1/2017 23:55:40	Interference Check Solution A	Se (196.026 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	6.5085
11/1/2017 23:55:40	Interference Check Solution A	Sn (189.925 nm)	-0.0019 u (ppm)	96.28	-0.0019 (ppm)	-2.5853
11/1/2017 23:55:40	Interference Check Solution A	Sr (216.596 nm)	0.0186 (ppm)	3.68	0.0186 (ppm)	276.9852
11/1/2017 23:55:40	Interference Check Solution A	Ti (336.122 nm)	0.0014 (ppm)	1.69	0.0014 (ppm)	-117.5521
11/1/2017 23:55:40	Interference Check Solution A	Tl (351.923 nm)	0.0013 (ppm)	59.66	0.0013 (ppm)	18.3951
11/1/2017 23:55:40	Interference Check Solution A	V (292.401 nm)	0.0031 K (ppm)	2.98	0.0031 (ppm)	222.5774 K
11/1/2017 23:55:40	Interference Check Solution A	Y (360.074 nm)	0.90 (Ratio)	0.52	0.90 (Ratio)	842679.41
11/1/2017 23:55:40	Interference Check Solution A	Y_R (360.074 nm)	0.90 (Ratio)	0.52	0.90 (Ratio)	842680.32
11/1/2017 23:55:40	Interference Check Solution A	Zn (213.857 nm)	0.0114 K (ppm)	0.05	0.0114 (ppm)	300.9452 K
11/1/2017 23:58:59	Interference Check Solution AB	Ag (328.068 nm)	0.2121 (ppm)	0.35	0.2121 (ppm)	15452.8349
11/1/2017 23:58:59	Interference Check Solution AB	Al (394.401 nm)	262.0551 o (ppm)	0.44	262.0551 (ppm)	3499424.3699
11/1/2017 23:58:59	Interference Check Solution AB	As (188.980 nm)	0.1017 (ppm)	1.89	0.1017 (ppm)	91.2322
11/1/2017 23:58:59	Interference Check Solution AB	B (249.772 nm)	0.0368 (ppm)	0.19	0.0368 (ppm)	1146.1694
11/1/2017 23:58:59	Interference Check Solution AB	Ba (230.424 nm)	0.5138 (ppm)	0.20	0.5138 (ppm)	17990.9849
11/1/2017 23:58:59	Interference Check Solution AB	Be (313.107 nm)	0.4961 (ppm)	0.30	0.4961 (ppm)	751884.6287
11/1/2017 23:58:59	Interference Check Solution AB	Ca (227.547 nm)	265.5071 o (ppm)	0.56	265.5071 (ppm)	15598.7792
11/1/2017 23:58:59	Interference Check Solution AB	Cd (214.439 nm)	0.9285 (ppm)	0.10	0.9285 (ppm)	21128.1043
11/1/2017 23:58:59	Interference Check Solution AB	Co (230.786 nm)	0.4820 (ppm)	0.24	0.4820 (ppm)	4959.5782
11/1/2017 23:58:59	Interference Check Solution AB	Cr (267.716 nm)	0.4789 (ppm)	0.16	0.4789 (ppm)	24977.3464
11/1/2017 23:58:59	Interference Check Solution AB	Cu (327.395 nm)	0.5287 (ppm)	0.71	0.5287 (ppm)	33229.1437
11/1/2017 23:58:59	Interference Check Solution AB	Fe (234.350 nm)	86.3113 o (ppm)	0.17	86.3113 (ppm)	1002758.9346
11/1/2017 23:58:59	Interference Check Solution AB	K (766.491 nm)	0.0036 u (ppm)	> 100.00	0.0036 (ppm)	68.4758
11/1/2017 23:58:59	Interference Check Solution AB	Mg (279.078 nm)	256.2526 o (ppm)	0.43	256.2526 (ppm)	517054.8175
11/1/2017 23:58:59	Interference Check Solution AB	Mn (257.610 nm)	0.5014 (ppm)	1.07	0.5014 (ppm)	162259.6866
11/1/2017 23:58:59	Interference Check Solution AB	Mo (202.032 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	21.2824
11/1/2017 23:58:59	Interference Check Solution AB	Na (588.995 nm)	0.0230 (ppm)	6.86	0.0230 (ppm)	-4923.8716
11/1/2017 23:58:59	Interference Check Solution AB	Ni (230.299 nm)	0.9286 (ppm)	0.19	0.9286 (ppm)	6417.3221
11/1/2017 23:58:59	Interference Check Solution AB	Pb (220.353 nm)	0.0456 (ppm)	6.33	0.0456 (ppm)	107.3901
11/1/2017 23:58:59	Interference Check Solution AB	Sb (217.582 nm)	0.5976 (ppm)	0.86	0.5976 (ppm)	856.7006
11/1/2017 23:58:59	Interference Check Solution AB	Se (196.026 nm)	0.0479 (ppm)	3.87	0.0479 (ppm)	47.3243
11/1/2017 23:58:59	Interference Check Solution AB	Sn (189.925 nm)	0.0023 u (ppm)	> 100.00	0.0023 (ppm)	2.8056
11/1/2017 23:58:59	Interference Check Solution AB	Sr (216.596 nm)	0.0190 (ppm)	0.59	0.0190 (ppm)	281.9354
11/1/2017 23:58:59	Interference Check Solution AB	Ti (336.122 nm)	0.0013 (ppm)	0.66	0.0013 (ppm)	-137.0334
11/1/2017 23:58:59	Interference Check Solution AB	Tl (351.923 nm)	0.1124 (ppm)	2.03	0.1124 (ppm)	333.7109
11/1/2017 23:58:59	Interference Check Solution AB	V (292.401 nm)	0.4968 (ppm)	0.31	0.4968 (ppm)	17991.9907
11/1/2017 23:58:59	Interference Check Solution AB	Y (360.074 nm)	0.90 (Ratio)	0.73	0.90 (Ratio)	840102.68
11/1/2017 23:58:59	Interference Check Solution AB	Y_R (360.074 nm)	0.90 (Ratio)	0.73	0.90 (Ratio)	839999.12

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/1/2017 23:58:59	Interference Check Solution AB	Zn (213.857 nm)	0.9986 (ppm)	0.19	0.9986 (ppm)	28983.9552
11/2/2017 00:02:18	Continuing Calibration Verification	Ag (328.068 nm)	0.4799 (ppm)	0.31	0.4799 (ppm)	35127.4877
11/2/2017 00:02:18	Continuing Calibration Verification	Al (394.401 nm)	9.4051 (ppm)	0.51	9.4051 (ppm)	125673.6366
11/2/2017 00:02:18	Continuing Calibration Verification	As (188.980 nm)	0.9467 (ppm)	0.28	0.9467 (ppm)	873.3254
11/2/2017 00:02:18	Continuing Calibration Verification	B (249.772 nm)	2.3586 (ppm)	0.31	2.3586 (ppm)	67681.6050
11/2/2017 00:02:18	Continuing Calibration Verification	Ba (230.424 nm)	10.0257 (ppm)	0.54	10.0257 (ppm)	350882.0286
11/2/2017 00:02:18	Continuing Calibration Verification	Be (313.107 nm)	0.2480 (ppm)	0.36	0.2480 (ppm)	375673.4452
11/2/2017 00:02:18	Continuing Calibration Verification	Ca (227.547 nm)	23.9163 (ppm)	0.63	23.9163 (ppm)	1410.7208
11/2/2017 00:02:18	Continuing Calibration Verification	Cd (214.439 nm)	0.4808 (ppm)	0.34	0.4808 (ppm)	10945.6520
11/2/2017 00:02:18	Continuing Calibration Verification	Co (230.786 nm)	2.5094 (ppm)	0.28	2.5094 (ppm)	25825.4993
11/2/2017 00:02:18	Continuing Calibration Verification	Cr (267.716 nm)	0.4877 (ppm)	0.32	0.4877 (ppm)	25433.7504
11/2/2017 00:02:18	Continuing Calibration Verification	Cu (327.395 nm)	1.1949 (ppm)	0.45	1.1949 (ppm)	75072.3611
11/2/2017 00:02:18	Continuing Calibration Verification	Fe (234.350 nm)	4.7155 (ppm)	0.29	4.7155 (ppm)	54852.8701
11/2/2017 00:02:18	Continuing Calibration Verification	K (766.491 nm)	24.5798 (ppm)	0.54	24.5798 (ppm)	75949.1540
11/2/2017 00:02:18	Continuing Calibration Verification	Mg (279.078 nm)	24.1929 (ppm)	0.32	24.1929 (ppm)	48809.0073
11/2/2017 00:02:18	Continuing Calibration Verification	Mn (257.610 nm)	0.7357 (ppm)	0.37	0.7357 (ppm)	238055.4968
11/2/2017 00:02:18	Continuing Calibration Verification	Mo (202.032 nm)	2.3376 (ppm)	0.31	2.3376 (ppm)	25029.2937
11/2/2017 00:02:18	Continuing Calibration Verification	Na (588.995 nm)	24.7647 (ppm)	0.46	24.7647 (ppm)	1130393.6018
11/2/2017 00:02:18	Continuing Calibration Verification	Ni (230.299 nm)	1.9731 (ppm)	0.26	1.9731 (ppm)	13665.7849
11/2/2017 00:02:18	Continuing Calibration Verification	Pb (220.353 nm)	0.4816 (ppm)	0.57	0.4816 (ppm)	1080.5697
11/2/2017 00:02:18	Continuing Calibration Verification	Sb (217.582 nm)	4.7788 (ppm)	0.40	4.7788 (ppm)	6821.5366
11/2/2017 00:02:18	Continuing Calibration Verification	Se (196.026 nm)	0.4694 (ppm)	0.67	0.4694 (ppm)	415.5205
11/2/2017 00:02:18	Continuing Calibration Verification	Sn (189.925 nm)	4.8896 (ppm)	0.20	4.8896 (ppm)	6230.2955
11/2/2017 00:02:18	Continuing Calibration Verification	Sr (216.596 nm)	2.4263 (ppm)	0.30	2.4263 (ppm)	36192.5400
11/2/2017 00:02:18	Continuing Calibration Verification	Ti (336.122 nm)	2.4394 (ppm)	0.89	2.4394 (ppm)	534534.3805
11/2/2017 00:02:18	Continuing Calibration Verification	Tl (351.923 nm)	0.9718 (ppm)	0.41	0.9718 (ppm)	2773.7162
11/2/2017 00:02:18	Continuing Calibration Verification	V (292.401 nm)	2.4567 (ppm)	0.33	2.4567 (ppm)	88543.8971
11/2/2017 00:02:18	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	0.78	0.99 (Ratio)	924854.23
11/2/2017 00:02:18	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	0.78	0.99 (Ratio)	924527.46
11/2/2017 00:02:18	Continuing Calibration Verification	Zn (213.857 nm)	0.9687 (ppm)	0.28	0.9687 (ppm)	28115.5836
11/2/2017 00:05:37	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	72.12	0.0001 (ppm)	-116.9123
11/2/2017 00:05:37	Continuing Calibration Blank	Al (394.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	80.6769
11/2/2017 00:05:37	Continuing Calibration Blank	As (188.980 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-3.2794
11/2/2017 00:05:37	Continuing Calibration Blank	B (249.772 nm)	0.0009 (ppm)	68.71	0.0009 (ppm)	117.1605
11/2/2017 00:05:37	Continuing Calibration Blank	Ba (230.424 nm)	0.0004 (ppm)	5.00	0.0004 (ppm)	21.6028
11/2/2017 00:05:37	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	15.76	0.0000 (ppm)	-481.3006
11/2/2017 00:05:37	Continuing Calibration Blank	Ca (227.547 nm)	-0.0221 u (ppm)	> 100.00	-0.0221 (ppm)	4.8698
11/2/2017 00:05:37	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	74.82	0.0001 (ppm)	15.6711
11/2/2017 00:05:37	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.7590
11/2/2017 00:05:37	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	76.26	0.0000 (ppm)	2.0793
11/2/2017 00:05:37	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	25.9289
11/2/2017 00:05:37	Continuing Calibration Blank	Fe (234.350 nm)	0.0047 (ppm)	6.17	0.0047 (ppm)	127.5806
11/2/2017 00:05:37	Continuing Calibration Blank	K (766.491 nm)	0.0054 (ppm)	83.69	0.0054 (ppm)	74.2399
11/2/2017 00:05:37	Continuing Calibration Blank	Mg (279.078 nm)	0.0023 (ppm)	19.51	0.0023 (ppm)	-2.3939
11/2/2017 00:05:37	Continuing Calibration Blank	Mn (257.610 nm)	0.0024 (ppm)	30.40	0.0024 (ppm)	821.7079
11/2/2017 00:05:37	Continuing Calibration Blank	Mo (202.032 nm)	0.0026 (ppm)	1.49	0.0026 (ppm)	44.8674
11/2/2017 00:05:37	Continuing Calibration Blank	Na (588.995 nm)	0.0102 (ppm)	15.38	0.0102 (ppm)	-5510.4941
11/2/2017 00:05:37	Continuing Calibration Blank	Ni (230.299 nm)	0.0007 (ppm)	60.19	0.0007 (ppm)	-21.0183
11/2/2017 00:05:37	Continuing Calibration Blank	Pb (220.353 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	5.5970
11/2/2017 00:05:37	Continuing Calibration Blank	Sb (217.582 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	4.6376
11/2/2017 00:05:37	Continuing Calibration Blank	Se (196.026 nm)	-0.0034 u (ppm)	86.06	-0.0034 (ppm)	2.5610

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:05:37	Continuing Calibration Blank	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.1460
11/2/2017 00:05:37	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-0.3287
11/2/2017 00:05:37	Continuing Calibration Blank	Ti (336.122 nm)	0.0008 (ppm)	8.08	0.0008 (ppm)	-242.5647
11/2/2017 00:05:37	Continuing Calibration Blank	Tl (351.923 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	11.2911
11/2/2017 00:05:37	Continuing Calibration Blank	V (292.401 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	109.8796
11/2/2017 00:05:37	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.73	1.03 (Ratio)	967594.04
11/2/2017 00:05:37	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.72	1.03 (Ratio)	967101.24
11/2/2017 00:05:37	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-29.3039
11/2/2017 00:08:56	PBW-302022	Ag (328.068 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	-115.8748
11/2/2017 00:08:56	PBW-302022	Al (394.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	83.3444
11/2/2017 00:08:56	PBW-302022	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.9788
11/2/2017 00:08:56	PBW-302022	B (249.772 nm)	-0.0003 u (ppm)	40.91	-0.0003 (ppm)	81.2228
11/2/2017 00:08:56	PBW-302022	Ba (230.424 nm)	-0.0002 u (ppm)	57.23	-0.0002 (ppm)	0.9397
11/2/2017 00:08:56	PBW-302022	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-503.0765
11/2/2017 00:08:56	PBW-302022	Ca (227.547 nm)	-0.0141 u (ppm)	> 100.00	-0.0141 (ppm)	5.3422
11/2/2017 00:08:56	PBW-302022	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	9.7515
11/2/2017 00:08:56	PBW-302022	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.2680
11/2/2017 00:08:56	PBW-302022	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.4302
11/2/2017 00:08:56	PBW-302022	Cu (327.395 nm)	-0.0001 u (ppm)	62.42	-0.0001 (ppm)	13.0930
11/2/2017 00:08:56	PBW-302022	Fe (234.350 nm)	-0.0046 u (ppm)	7.94	-0.0046 (ppm)	19.5371
11/2/2017 00:08:56	PBW-302022	K (766.491 nm)	-0.0063 u (ppm)	23.62	-0.0063 (ppm)	37.9127
11/2/2017 00:08:56	PBW-302022	Mg (279.078 nm)	0.0021 (ppm)	27.29	0.0021 (ppm)	-2.8644
11/2/2017 00:08:56	PBW-302022	Mn (257.610 nm)	0.0077 (ppm)	36.71	0.0077 (ppm)	2528.4534
11/2/2017 00:08:56	PBW-302022	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	17.8344
11/2/2017 00:08:56	PBW-302022	Na (588.995 nm)	0.0133 (ppm)	12.70	0.0133 (ppm)	-5368.0255
11/2/2017 00:08:56	PBW-302022	Ni (230.299 nm)	0.0017 (ppm)	36.48	0.0017 (ppm)	-14.5069
11/2/2017 00:08:56	PBW-302022	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	4.9124
11/2/2017 00:08:56	PBW-302022	Sb (217.582 nm)	-0.0017 u (ppm)	64.35	-0.0017 (ppm)	1.7492
11/2/2017 00:08:56	PBW-302022	Se (196.026 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.3454
11/2/2017 00:08:56	PBW-302022	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.6265
11/2/2017 00:08:56	PBW-302022	Sr (216.596 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.6552
11/2/2017 00:08:56	PBW-302022	Ti (336.122 nm)	0.0005 (ppm)	15.44	0.0005 (ppm)	-302.2957
11/2/2017 00:08:56	PBW-302022	Tl (351.923 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	12.0236
11/2/2017 00:08:56	PBW-302022	V (292.401 nm)	-0.0004 u (ppm)	21.77	-0.0004 (ppm)	96.6443
11/2/2017 00:08:56	PBW-302022	Y (360.074 nm)	1.05 (Ratio)	0.83	1.05 (Ratio)	982473.40
11/2/2017 00:08:56	PBW-302022	Y_R (360.074 nm)	1.05 (Ratio)	0.83	1.05 (Ratio)	982092.39
11/2/2017 00:08:56	PBW-302022	Zn (213.857 nm)	0.0012 (ppm)	6.60	0.0012 (ppm)	2.7630
11/2/2017 00:12:14	LCSW-302022	Ag (328.068 nm)	0.0492 (ppm)	0.33	0.0492 (ppm)	3490.7266
11/2/2017 00:12:14	LCSW-302022	Al (394.401 nm)	1.8520 (ppm)	0.54	1.8520 (ppm)	24814.3542
11/2/2017 00:12:14	LCSW-302022	As (188.980 nm)	0.0419 (ppm)	2.46	0.0419 (ppm)	35.8522
11/2/2017 00:12:14	LCSW-302022	B (249.772 nm)	0.9522 (ppm)	0.29	0.9522 (ppm)	27378.0842
11/2/2017 00:12:14	LCSW-302022	Ba (230.424 nm)	2.0428 (ppm)	0.26	2.0428 (ppm)	71502.6737
11/2/2017 00:12:14	LCSW-302022	Be (313.107 nm)	0.0498 (ppm)	0.29	0.0498 (ppm)	75001.2945
11/2/2017 00:12:14	LCSW-302022	Ca (227.547 nm)	1.9056 (ppm)	1.27	1.9056 (ppm)	118.0791
11/2/2017 00:12:14	LCSW-302022	Cd (214.439 nm)	0.0498 (ppm)	0.41	0.0498 (ppm)	1145.7148
11/2/2017 00:12:14	LCSW-302022	Co (230.786 nm)	0.5053 (ppm)	0.42	0.5053 (ppm)	5198.9588
11/2/2017 00:12:14	LCSW-302022	Cr (267.716 nm)	0.1949 (ppm)	0.30	0.1949 (ppm)	10166.2521
11/2/2017 00:12:14	LCSW-302022	Cu (327.395 nm)	0.2455 (ppm)	0.73	0.2455 (ppm)	15440.0121
11/2/2017 00:12:14	LCSW-302022	Fe (234.350 nm)	0.9514 (ppm)	0.29	0.9514 (ppm)	11125.4248
11/2/2017 00:12:14	LCSW-302022	K (766.491 nm)	19.4194 (ppm)	0.50	19.4194 (ppm)	60016.0952
11/2/2017 00:12:14	LCSW-302022	Mg (279.078 nm)	1.9608 (ppm)	0.38	1.9608 (ppm)	3949.3507

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:12:14	LCSW-302022	Mn (257.610 nm)	0.4931 (ppm)	0.26	0.4931 (ppm)	159579.0278
11/2/2017 00:12:14	LCSW-302022	Mo (202.032 nm)	0.4715 (ppm)	0.40	0.4715 (ppm)	5062.0854
11/2/2017 00:12:14	LCSW-302022	Na (588.995 nm)	19.8375 (ppm)	0.57	19.8375 (ppm)	904301.4085
11/2/2017 00:12:14	LCSW-302022	Ni (230.299 nm)	0.5027 (ppm)	0.37	0.5027 (ppm)	3462.5358
11/2/2017 00:12:14	LCSW-302022	Pb (220.353 nm)	0.5048 (ppm)	0.19	0.5048 (ppm)	1132.4741
11/2/2017 00:12:14	LCSW-302022	Sb (217.582 nm)	0.4925 (ppm)	0.27	0.4925 (ppm)	706.7240
11/2/2017 00:12:14	LCSW-302022	Se (196.026 nm)	1.0225 (ppm)	0.53	1.0225 (ppm)	898.6973
11/2/2017 00:12:14	LCSW-302022	Sn (189.925 nm)	4.9577 (ppm)	0.58	4.9577 (ppm)	6317.1441
11/2/2017 00:12:14	LCSW-302022	Sr (216.596 nm)	1.9968 (ppm)	0.36	1.9968 (ppm)	29785.8032
11/2/2017 00:12:14	LCSW-302022	Ti (336.122 nm)	0.4921 (ppm)	0.37	0.4921 (ppm)	107504.5319
11/2/2017 00:12:14	LCSW-302022	Tl (351.923 nm)	1.8745 (ppm)	0.54	1.8745 (ppm)	5336.4615
11/2/2017 00:12:14	LCSW-302022	V (292.401 nm)	0.4928 (ppm)	0.35	0.4928 (ppm)	17848.4177
11/2/2017 00:12:14	LCSW-302022	Y (360.074 nm)	1.01 (Ratio)	0.76	1.01 (Ratio)	945642.82
11/2/2017 00:12:14	LCSW-302022	Y_R (360.074 nm)	1.01 (Ratio)	0.76	1.01 (Ratio)	945473.72
11/2/2017 00:12:14	LCSW-302022	Zn (213.857 nm)	0.4959 (ppm)	0.42	0.4959 (ppm)	14376.9935
11/2/2017 00:15:33	R1710078-002	Ag (328.068 nm)	0.0003 (ppm)	37.61	0.0003 (ppm)	-106.3475
11/2/2017 00:15:33	R1710078-002	Al (394.401 nm)	0.0314 (ppm)	2.47	0.0314 (ppm)	502.2706
11/2/2017 00:15:33	R1710078-002	As (188.980 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	-1.9956
11/2/2017 00:15:33	R1710078-002	B (249.772 nm)	0.7294 (ppm)	0.38	0.7294 (ppm)	20993.3281
11/2/2017 00:15:33	R1710078-002	Ba (230.424 nm)	0.0086 (ppm)	0.48	0.0086 (ppm)	309.8532
11/2/2017 00:15:33	R1710078-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-508.7956
11/2/2017 00:15:33	R1710078-002	Ca (227.547 nm)	433.9163 o (ppm)	0.70	433.9163 (ppm)	25489.0558
11/2/2017 00:15:33	R1710078-002	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	9.8623
11/2/2017 00:15:33	R1710078-002	Co (230.786 nm)	0.0005 (ppm)	30.98	0.0005 (ppm)	4.2068
11/2/2017 00:15:33	R1710078-002	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.2190
11/2/2017 00:15:33	R1710078-002	Cu (327.395 nm)	0.0002 (ppm)	27.30	0.0002 (ppm)	35.0327
11/2/2017 00:15:33	R1710078-002	Fe (234.350 nm)	0.3643 (ppm)	0.36	0.3643 (ppm)	4304.5766
11/2/2017 00:15:33	R1710078-002	K (766.491 nm)	7.7859 (ppm)	1.08	7.7859 (ppm)	24097.0441
11/2/2017 00:15:33	R1710078-002	Mg (279.078 nm)	102.5903 o (ppm)	0.35	102.5903 (ppm)	206997.9278
11/2/2017 00:15:33	R1710078-002	Mn (257.610 nm)	0.0193 (ppm)	8.39	0.0193 (ppm)	6286.3771
11/2/2017 00:15:33	R1710078-002	Mo (202.032 nm)	0.0043 (ppm)	2.30	0.0043 (ppm)	63.1062
11/2/2017 00:15:33	R1710078-002	Na (588.995 nm)	166.6008 o (ppm)	0.95	166.6008 (ppm)	7638796.8526
11/2/2017 00:15:33	R1710078-002	Ni (230.299 nm)	-0.0030 u (ppm)	33.08	-0.0030 (ppm)	-47.0108
11/2/2017 00:15:33	R1710078-002	Pb (220.353 nm)	-0.0029 u (ppm)	73.50	-0.0029 (ppm)	-0.7711
11/2/2017 00:15:33	R1710078-002	Sb (217.582 nm)	-0.0041 u (ppm)	26.86	-0.0041 (ppm)	-1.6655
11/2/2017 00:15:33	R1710078-002	Se (196.026 nm)	-0.0019 u (ppm)	> 100.00	-0.0019 (ppm)	3.8386
11/2/2017 00:15:33	R1710078-002	Sn (189.925 nm)	-0.0021 u (ppm)	85.76	-0.0021 (ppm)	-2.8529
11/2/2017 00:15:33	R1710078-002	Sr (216.596 nm)	15.0129 o (ppm)	2.03	15.0129 (ppm)	223951.2331
11/2/2017 00:15:33	R1710078-002	Ti (336.122 nm)	0.0029 (ppm)	2.95	0.0029 (ppm)	222.0117
11/2/2017 00:15:33	R1710078-002	Tl (351.923 nm)	0.0101 (ppm)	31.55	0.0101 (ppm)	43.3710
11/2/2017 00:15:33	R1710078-002	V (292.401 nm)	0.0001 (ppm)	32.73	0.0001 (ppm)	112.5519
11/2/2017 00:15:33	R1710078-002	Y (360.074 nm)	0.91 (Ratio)	0.75	0.91 (Ratio)	849433.75
11/2/2017 00:15:33	R1710078-002	Y_R (360.074 nm)	0.91 (Ratio)	0.75	0.91 (Ratio)	849440.31
11/2/2017 00:15:33	R1710078-002	Zn (213.857 nm)	0.0066 (ppm)	1.11	0.0066 (ppm)	160.5752
11/2/2017 00:18:52	R1710078-002S	Ag (328.068 nm)	0.0533 (ppm)	0.26	0.0533 (ppm)	3790.8430
11/2/2017 00:18:52	R1710078-002S	Al (394.401 nm)	2.2490 (ppm)	0.44	2.2490 (ppm)	30114.6144
11/2/2017 00:18:52	R1710078-002S	As (188.980 nm)	0.0435 (ppm)	12.60	0.0435 (ppm)	37.3989
11/2/2017 00:18:52	R1710078-002S	B (249.772 nm)	1.7866 (ppm)	0.32	1.7866 (ppm)	51289.6415
11/2/2017 00:18:52	R1710078-002S	Ba (230.424 nm)	2.0183 (ppm)	0.28	2.0183 (ppm)	70642.4764
11/2/2017 00:18:52	R1710078-002S	Be (313.107 nm)	0.0494 (ppm)	0.32	0.0494 (ppm)	74365.4908
11/2/2017 00:18:52	R1710078-002S	Ca (227.547 nm)	449.0610 o (ppm)	0.56	449.0610 (ppm)	26378.4692

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:18:52	R1710078-002S	Cd (214.439 nm)	0.0470 (ppm)	0.53	0.0470 (ppm)	1082.2385
11/2/2017 00:18:52	R1710078-002S	Co (230.786 nm)	0.4890 (ppm)	0.45	0.4890 (ppm)	5031.1808
11/2/2017 00:18:52	R1710078-002S	Cr (267.716 nm)	0.1922 (ppm)	0.35	0.1922 (ppm)	10023.5312
11/2/2017 00:18:52	R1710078-002S	Cu (327.395 nm)	0.2674 (ppm)	0.54	0.2674 (ppm)	16814.5015
11/2/2017 00:18:52	R1710078-002S	Fe (234.350 nm)	1.3237 (ppm)	0.38	1.3237 (ppm)	15449.7773
11/2/2017 00:18:52	R1710078-002S	K (766.491 nm)	31.9937 (ppm)	0.50	31.9937 (ppm)	98840.0538
11/2/2017 00:18:52	R1710078-002S	Mg (279.078 nm)	106.9765 o (ppm)	0.39	106.9765 (ppm)	215848.2739
11/2/2017 00:18:52	R1710078-002S	Mn (257.610 nm)	0.5079 (ppm)	0.08	0.5079 (ppm)	164351.7651
11/2/2017 00:18:52	R1710078-002S	Mo (202.032 nm)	0.4805 (ppm)	0.12	0.4805 (ppm)	5157.7008
11/2/2017 00:18:52	R1710078-002S	Na (588.995 nm)	189.5389 o (ppm)	0.69	189.5389 (ppm)	8691352.4857
11/2/2017 00:18:52	R1710078-002S	Ni (230.299 nm)	0.4826 (ppm)	0.34	0.4826 (ppm)	3322.9610
11/2/2017 00:18:52	R1710078-002S	Pb (220.353 nm)	0.4825 (ppm)	0.16	0.4825 (ppm)	1082.7422
11/2/2017 00:18:52	R1710078-002S	Sb (217.582 nm)	0.5319 (ppm)	0.68	0.5319 (ppm)	762.9816
11/2/2017 00:18:52	R1710078-002S	Se (196.026 nm)	1.1305 o (ppm)	0.43	1.1305 (ppm)	993.0811
11/2/2017 00:18:52	R1710078-002S	Sn (189.925 nm)	4.9508 (ppm)	0.43	4.9508 (ppm)	6308.3461
11/2/2017 00:18:52	R1710078-002S	Sr (216.596 nm)	17.3527 o (ppm)	0.19	17.3527 (ppm)	258853.9079
11/2/2017 00:18:52	R1710078-002S	Ti (336.122 nm)	0.5055 (ppm)	0.40	0.5055 (ppm)	110439.1494
11/2/2017 00:18:52	R1710078-002S	Tl (351.923 nm)	2.1655 (ppm)	0.55	2.1655 (ppm)	6162.4498
11/2/2017 00:18:52	R1710078-002S	V (292.401 nm)	0.5064 (ppm)	0.39	0.5064 (ppm)	18337.6775
11/2/2017 00:18:52	R1710078-002S	Y (360.074 nm)	0.90 (Ratio)	0.76	0.90 (Ratio)	844709.79
11/2/2017 00:18:52	R1710078-002S	Y_R (360.074 nm)	0.90 (Ratio)	0.75	0.90 (Ratio)	844762.18
11/2/2017 00:18:52	R1710078-002S	Zn (213.857 nm)	0.5113 (ppm)	0.30	0.5113 (ppm)	14825.0670
11/2/2017 00:22:11	R1710078-002SD	Ag (328.068 nm)	0.0527 (ppm)	0.13	0.0527 (ppm)	3744.2360
11/2/2017 00:22:11	R1710078-002SD	Al (394.401 nm)	2.2199 (ppm)	0.41	2.2199 (ppm)	29727.1134
11/2/2017 00:22:11	R1710078-002SD	As (188.980 nm)	0.0416 (ppm)	20.14	0.0416 (ppm)	35.6067
11/2/2017 00:22:11	R1710078-002SD	B (249.772 nm)	1.7536 (ppm)	0.24	1.7536 (ppm)	50344.0772
11/2/2017 00:22:11	R1710078-002SD	Ba (230.424 nm)	2.0037 (ppm)	0.61	2.0037 (ppm)	70134.1186
11/2/2017 00:22:11	R1710078-002SD	Be (313.107 nm)	0.0489 (ppm)	0.32	0.0489 (ppm)	73662.5874
11/2/2017 00:22:11	R1710078-002SD	Ca (227.547 nm)	434.3836 o (ppm)	0.52	434.3836 (ppm)	25516.4975
11/2/2017 00:22:11	R1710078-002SD	Cd (214.439 nm)	0.0468 (ppm)	0.87	0.0468 (ppm)	1077.5650
11/2/2017 00:22:11	R1710078-002SD	Co (230.786 nm)	0.4841 (ppm)	0.24	0.4841 (ppm)	4980.6925
11/2/2017 00:22:11	R1710078-002SD	Cr (267.716 nm)	0.1903 (ppm)	0.48	0.1903 (ppm)	9926.5630
11/2/2017 00:22:11	R1710078-002SD	Cu (327.395 nm)	0.2641 (ppm)	0.49	0.2641 (ppm)	16610.0048
11/2/2017 00:22:11	R1710078-002SD	Fe (234.350 nm)	1.2997 (ppm)	0.46	1.2997 (ppm)	15171.2184
11/2/2017 00:22:11	R1710078-002SD	K (766.491 nm)	31.4742 (ppm)	0.51	31.4742 (ppm)	97236.2624
11/2/2017 00:22:11	R1710078-002SD	Mg (279.078 nm)	103.7134 o (ppm)	0.47	103.7134 (ppm)	209263.9641
11/2/2017 00:22:11	R1710078-002SD	Mn (257.610 nm)	0.5019 (ppm)	0.26	0.5019 (ppm)	162404.1729
11/2/2017 00:22:11	R1710078-002SD	Mo (202.032 nm)	0.4763 (ppm)	0.37	0.4763 (ppm)	5113.4022
11/2/2017 00:22:11	R1710078-002SD	Na (588.995 nm)	184.1094 o (ppm)	0.62	184.1094 (ppm)	8442210.8174
11/2/2017 00:22:11	R1710078-002SD	Ni (230.299 nm)	0.4774 (ppm)	0.28	0.4774 (ppm)	3286.7996
11/2/2017 00:22:11	R1710078-002SD	Pb (220.353 nm)	0.4789 (ppm)	0.72	0.4789 (ppm)	1074.7262
11/2/2017 00:22:11	R1710078-002SD	Sb (217.582 nm)	0.5239 (ppm)	0.98	0.5239 (ppm)	751.5767
11/2/2017 00:22:11	R1710078-002SD	Se (196.026 nm)	1.1220 o (ppm)	0.72	1.1220 (ppm)	985.6287
11/2/2017 00:22:11	R1710078-002SD	Sn (189.925 nm)	4.9039 (ppm)	0.28	4.9039 (ppm)	6248.5321
11/2/2017 00:22:11	R1710078-002SD	Sr (216.596 nm)	16.7784 o (ppm)	1.27	16.7784 (ppm)	250286.8402
11/2/2017 00:22:11	R1710078-002SD	Ti (336.122 nm)	0.5001 (ppm)	0.44	0.5001 (ppm)	109251.2907
11/2/2017 00:22:11	R1710078-002SD	Tl (351.923 nm)	2.1384 (ppm)	0.46	2.1384 (ppm)	6085.5368
11/2/2017 00:22:11	R1710078-002SD	V (292.401 nm)	0.5017 (ppm)	0.35	0.5017 (ppm)	18168.1392
11/2/2017 00:22:11	R1710078-002SD	Y (360.074 nm)	0.90 (Ratio)	0.66	0.90 (Ratio)	845956.52
11/2/2017 00:22:11	R1710078-002SD	Y_R (360.074 nm)	0.90 (Ratio)	0.65	0.90 (Ratio)	846013.31
11/2/2017 00:22:11	R1710078-002SD	Zn (213.857 nm)	0.5053 (ppm)	0.68	0.5053 (ppm)	14651.0630

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:25:29	R1710078-002A	Ag (328.068 nm)	0.0501 (ppm)	0.47	0.0501 (ppm)	3554.5919
11/2/2017 00:25:29	R1710078-002A	Al (394.401 nm)	2.1496 (ppm)	0.52	2.1496 (ppm)	28787.6721
11/2/2017 00:25:29	R1710078-002A	As (188.980 nm)	0.0418 (ppm)	4.08	0.0418 (ppm)	35.8143
11/2/2017 00:25:29	R1710078-002A	B (249.772 nm)	1.8865 (ppm)	0.21	1.8865 (ppm)	54151.9873
11/2/2017 00:25:29	R1710078-002A	Ba (230.424 nm)	1.9083 (ppm)	0.34	1.9083 (ppm)	66794.9758
11/2/2017 00:25:29	R1710078-002A	Be (313.107 nm)	0.0468 (ppm)	0.34	0.0468 (ppm)	70438.3117
11/2/2017 00:25:29	R1710078-002A	Ca (227.547 nm)	426.1743 o (ppm)	0.48	426.1743 (ppm)	25034.3870
11/2/2017 00:25:29	R1710078-002A	Cd (214.439 nm)	0.0446 (ppm)	0.19	0.0446 (ppm)	1026.3354
11/2/2017 00:25:29	R1710078-002A	Co (230.786 nm)	0.4630 (ppm)	0.19	0.4630 (ppm)	4763.4648
11/2/2017 00:25:29	R1710078-002A	Cr (267.716 nm)	0.1818 (ppm)	0.33	0.1818 (ppm)	9481.0657
11/2/2017 00:25:29	R1710078-002A	Cu (327.395 nm)	0.2542 (ppm)	0.41	0.2542 (ppm)	15988.6454
11/2/2017 00:25:29	R1710078-002A	Fe (234.350 nm)	1.2504 (ppm)	0.36	1.2504 (ppm)	14598.3709
11/2/2017 00:25:29	R1710078-002A	K (766.491 nm)	30.2609 (ppm)	0.60	30.2609 (ppm)	93490.0815
11/2/2017 00:25:29	R1710078-002A	Mg (279.078 nm)	101.6186 o (ppm)	0.32	101.6186 (ppm)	205037.1027
11/2/2017 00:25:29	R1710078-002A	Mn (257.610 nm)	0.5018 (ppm)	1.41	0.5018 (ppm)	162387.0108
11/2/2017 00:25:29	R1710078-002A	Mo (202.032 nm)	0.4587 (ppm)	0.20	0.4587 (ppm)	4924.8702
11/2/2017 00:25:29	R1710078-002A	Na (588.995 nm)	180.5639 o (ppm)	0.68	180.5639 (ppm)	8279520.5782
11/2/2017 00:25:29	R1710078-002A	Ni (230.299 nm)	0.4565 (ppm)	0.15	0.4565 (ppm)	3141.6567
11/2/2017 00:25:29	R1710078-002A	Pb (220.353 nm)	0.4591 (ppm)	0.80	0.4591 (ppm)	1030.4587
11/2/2017 00:25:29	R1710078-002A	Sb (217.582 nm)	0.5081 (ppm)	0.56	0.5081 (ppm)	729.0181
11/2/2017 00:25:29	R1710078-002A	Se (196.026 nm)	1.1455 o (ppm)	1.13	1.1455 (ppm)	1006.2002
11/2/2017 00:25:29	R1710078-002A	Sn (189.925 nm)	4.6852 (ppm)	0.49	4.6852 (ppm)	5969.8846
11/2/2017 00:25:29	R1710078-002A	Sr (216.596 nm)	16.5297 o (ppm)	0.32	16.5297 (ppm)	246577.1127
11/2/2017 00:25:29	R1710078-002A	Ti (336.122 nm)	0.4815 (ppm)	0.45	0.4815 (ppm)	105181.8977
11/2/2017 00:25:29	R1710078-002A	Tl (351.923 nm)	2.0359 (ppm)	0.60	2.0359 (ppm)	5794.6986
11/2/2017 00:25:29	R1710078-002A	V (292.401 nm)	0.4790 (ppm)	0.30	0.4790 (ppm)	17353.4409
11/2/2017 00:25:29	R1710078-002A	Y (360.074 nm)	0.90 (Ratio)	0.67	0.90 (Ratio)	846683.48
11/2/2017 00:25:29	R1710078-002A	Y_R (360.074 nm)	0.90 (Ratio)	0.67	0.90 (Ratio)	846695.09
11/2/2017 00:25:29	R1710078-002A	Zn (213.857 nm)	0.4847 (ppm)	0.41	0.4847 (ppm)	14050.7955
11/2/2017 00:28:49	R1710078-002L	Ag (328.068 nm)	0.0002 (ppm)	58.98	0.0002 (ppm)	-112.1065
11/2/2017 00:28:49	R1710078-002L	Al (394.401 nm)	0.0180 (ppm)	3.42	0.0180 (ppm)	323.4141
11/2/2017 00:28:49	R1710078-002L	As (188.980 nm)	0.0025 u (ppm)	> 100.00	0.0025 (ppm)	-0.5748
11/2/2017 00:28:49	R1710078-002L	B (249.772 nm)	0.1377 (ppm)	0.69	0.1377 (ppm)	4036.9066
11/2/2017 00:28:49	R1710078-002L	Ba (230.424 nm)	0.0018 (ppm)	2.81	0.0018 (ppm)	72.4584
11/2/2017 00:28:49	R1710078-002L	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-501.0482
11/2/2017 00:28:49	R1710078-002L	Ca (227.547 nm)	79.3510 o (ppm)	0.13	79.3510 (ppm)	4666.2699
11/2/2017 00:28:49	R1710078-002L	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	11.7640
11/2/2017 00:28:49	R1710078-002L	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.1152
11/2/2017 00:28:49	R1710078-002L	Cr (267.716 nm)	-0.0003 u (ppm)	47.40	-0.0003 (ppm)	-13.6973
11/2/2017 00:28:49	R1710078-002L	Cu (327.395 nm)	0.0001 (ppm)	80.64	0.0001 (ppm)	25.1188
11/2/2017 00:28:49	R1710078-002L	Fe (234.350 nm)	0.0723 (ppm)	0.21	0.0723 (ppm)	912.7751
11/2/2017 00:28:49	R1710078-002L	K (766.491 nm)	1.3288 (ppm)	1.03	1.3288 (ppm)	4160.1625
11/2/2017 00:28:49	R1710078-002L	Mg (279.078 nm)	19.8717 (ppm)	0.27	19.8717 (ppm)	40089.8051
11/2/2017 00:28:49	R1710078-002L	Mn (257.610 nm)	0.0054 (ppm)	13.33	0.0054 (ppm)	1787.9575
11/2/2017 00:28:49	R1710078-002L	Mo (202.032 nm)	0.0010 (ppm)	13.87	0.0010 (ppm)	27.7384
11/2/2017 00:28:49	R1710078-002L	Na (588.995 nm)	32.7539 (ppm)	0.52	32.7539 (ppm)	1496992.9244
11/2/2017 00:28:49	R1710078-002L	Ni (230.299 nm)	-0.0009 u (ppm)	74.03	-0.0009 (ppm)	-32.2781
11/2/2017 00:28:49	R1710078-002L	Pb (220.353 nm)	-0.0016 u (ppm)	82.19	-0.0016 (ppm)	2.0315
11/2/2017 00:28:49	R1710078-002L	Sb (217.582 nm)	-0.0013 u (ppm)	43.36	-0.0013 (ppm)	2.3400
11/2/2017 00:28:49	R1710078-002L	Se (196.026 nm)	0.0035 u (ppm)	> 100.00	0.0035 (ppm)	8.5760
11/2/2017 00:28:49	R1710078-002L	Sn (189.925 nm)	-0.0016 u (ppm)	99.45	-0.0016 (ppm)	-2.1542

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:28:49	R1710078-002L	Sr (216.596 nm)	3.1396 (ppm)	0.50	3.1396 (ppm)	46833.3578
11/2/2017 00:28:49	R1710078-002L	Ti (336.122 nm)	0.0006 (ppm)	6.39	0.0006 (ppm)	-283.1179
11/2/2017 00:28:49	R1710078-002L	Tl (351.923 nm)	0.0028 u (ppm)	> 100.00	0.0028 (ppm)	22.5014
11/2/2017 00:28:49	R1710078-002L	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	108.4827
11/2/2017 00:28:49	R1710078-002L	Y (360.074 nm)	0.98 (Ratio)	0.76	0.98 (Ratio)	919694.92
11/2/2017 00:28:49	R1710078-002L	Y_R (360.074 nm)	0.98 (Ratio)	0.76	0.98 (Ratio)	919545.89
11/2/2017 00:28:49	R1710078-002L	Zn (213.857 nm)	0.0069 (ppm)	3.37	0.0069 (ppm)	168.4260
11/2/2017 00:32:08	R1710078-003	Ag (328.068 nm)	0.0002 (ppm)	38.96	0.0002 (ppm)	-109.5920
11/2/2017 00:32:08	R1710078-003	Al (394.401 nm)	0.0850 (ppm)	0.22	0.0850 (ppm)	1218.8096
11/2/2017 00:32:08	R1710078-003	As (188.980 nm)	0.0110 (ppm)	12.63	0.0110 (ppm)	7.2959
11/2/2017 00:32:08	R1710078-003	B (249.772 nm)	0.1013 (ppm)	0.50	0.1013 (ppm)	2993.1135
11/2/2017 00:32:08	R1710078-003	Ba (230.424 nm)	0.1136 (ppm)	0.44	0.1136 (ppm)	3983.7541
11/2/2017 00:32:08	R1710078-003	Be (313.107 nm)	0.0000 (ppm)	34.63	0.0000 (ppm)	-521.9297
11/2/2017 00:32:08	R1710078-003	Ca (227.547 nm)	42.5028 (ppm)	0.51	42.5028 (ppm)	2502.2608
11/2/2017 00:32:08	R1710078-003	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.1042
11/2/2017 00:32:08	R1710078-003	Co (230.786 nm)	-0.0004 u (ppm)	94.75	-0.0004 (ppm)	-4.9734
11/2/2017 00:32:08	R1710078-003	Cr (267.716 nm)	-0.0001 u (ppm)	23.60	-0.0001 (ppm)	-7.8460
11/2/2017 00:32:08	R1710078-003	Cu (327.395 nm)	0.0011 (ppm)	7.95	0.0011 (ppm)	87.5280
11/2/2017 00:32:08	R1710078-003	Fe (234.350 nm)	0.2936 (ppm)	0.22	0.2936 (ppm)	3483.5340
11/2/2017 00:32:08	R1710078-003	K (766.491 nm)	2.7285 (ppm)	0.75	2.7285 (ppm)	8481.7938
11/2/2017 00:32:08	R1710078-003	Mg (279.078 nm)	51.4090 (ppm)	0.32	51.4090 (ppm)	103725.1373
11/2/2017 00:32:08	R1710078-003	Mn (257.610 nm)	0.0131 (ppm)	16.46	0.0131 (ppm)	4273.1496
11/2/2017 00:32:08	R1710078-003	Mo (202.032 nm)	0.0061 (ppm)	0.97	0.0061 (ppm)	82.1104
11/2/2017 00:32:08	R1710078-003	Na (588.995 nm)	19.3875 (ppm)	0.69	19.3875 (ppm)	883652.8142
11/2/2017 00:32:08	R1710078-003	Ni (230.299 nm)	-0.0072 u (ppm)	1.25	-0.0072 (ppm)	-75.7853
11/2/2017 00:32:08	R1710078-003	Pb (220.353 nm)	-0.0029 u (ppm)	44.37	-0.0029 (ppm)	-0.8619
11/2/2017 00:32:08	R1710078-003	Sb (217.582 nm)	-0.0028 u (ppm)	81.99	-0.0028 (ppm)	0.1037
11/2/2017 00:32:08	R1710078-003	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	5.0720
11/2/2017 00:32:08	R1710078-003	Sn (189.925 nm)	-0.0021 u (ppm)	61.31	-0.0021 (ppm)	-2.8820
11/2/2017 00:32:08	R1710078-003	Sr (216.596 nm)	21.5210 o (ppm)	0.29	21.5210 (ppm)	321033.4416
11/2/2017 00:32:08	R1710078-003	Ti (336.122 nm)	0.0018 (ppm)	5.82	0.0018 (ppm)	-15.5423
11/2/2017 00:32:08	R1710078-003	Tl (351.923 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	10.1807
11/2/2017 00:32:08	R1710078-003	V (292.401 nm)	0.0002 (ppm)	65.29	0.0002 (ppm)	116.7666
11/2/2017 00:32:08	R1710078-003	Y (360.074 nm)	0.99 (Ratio)	0.65	0.99 (Ratio)	922541.29
11/2/2017 00:32:08	R1710078-003	Y_R (360.074 nm)	0.99 (Ratio)	0.65	0.99 (Ratio)	922416.31
11/2/2017 00:32:08	R1710078-003	Zn (213.857 nm)	0.0059 (ppm)	0.48	0.0059 (ppm)	140.3533
11/2/2017 00:35:28	R1710078-004	Ag (328.068 nm)	0.0002 (ppm)	16.36	0.0002 (ppm)	-114.3872
11/2/2017 00:35:28	R1710078-004	Al (394.401 nm)	0.0911 (ppm)	0.24	0.0911 (ppm)	1299.7470
11/2/2017 00:35:28	R1710078-004	As (188.980 nm)	0.0135 (ppm)	16.38	0.0135 (ppm)	9.6119
11/2/2017 00:35:28	R1710078-004	B (249.772 nm)	0.0999 (ppm)	0.08	0.0999 (ppm)	2953.7350
11/2/2017 00:35:28	R1710078-004	Ba (230.424 nm)	0.1118 (ppm)	0.43	0.1118 (ppm)	3921.0784
11/2/2017 00:35:28	R1710078-004	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-520.8599
11/2/2017 00:35:28	R1710078-004	Ca (227.547 nm)	42.3411 (ppm)	0.65	42.3411 (ppm)	2492.7604
11/2/2017 00:35:28	R1710078-004	Cd (214.439 nm)	-0.0002 u (ppm)	28.51	-0.0002 (ppm)	7.1719
11/2/2017 00:35:28	R1710078-004	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-1.9555
11/2/2017 00:35:28	R1710078-004	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.8237
11/2/2017 00:35:28	R1710078-004	Cu (327.395 nm)	0.0010 (ppm)	3.91	0.0010 (ppm)	85.0822
11/2/2017 00:35:28	R1710078-004	Fe (234.350 nm)	0.2773 (ppm)	0.47	0.2773 (ppm)	3293.7823
11/2/2017 00:35:28	R1710078-004	K (766.491 nm)	2.6967 (ppm)	0.56	2.6967 (ppm)	8383.8567
11/2/2017 00:35:28	R1710078-004	Mg (279.078 nm)	50.9529 (ppm)	0.31	50.9529 (ppm)	102804.8988
11/2/2017 00:35:28	R1710078-004	Mn (257.610 nm)	0.0129 (ppm)	16.21	0.0129 (ppm)	4190.9225

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:35:28	R1710078-004	Mo (202.032 nm)	0.0060 (ppm)	2.46	0.0060 (ppm)	81.5117
11/2/2017 00:35:28	R1710078-004	Na (588.995 nm)	19.3381 (ppm)	0.65	19.3381 (ppm)	881386.8999
11/2/2017 00:35:28	R1710078-004	Ni (230.299 nm)	-0.0073 u (ppm)	4.48	-0.0073 (ppm)	-76.8558
11/2/2017 00:35:28	R1710078-004	Pb (220.353 nm)	-0.0018 u (ppm)	57.91	-0.0018 (ppm)	1.6797
11/2/2017 00:35:28	R1710078-004	Sb (217.582 nm)	-0.0030 u (ppm)	21.12	-0.0030 (ppm)	-0.2105
11/2/2017 00:35:28	R1710078-004	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	4.2876
11/2/2017 00:35:28	R1710078-004	Sn (189.925 nm)	-0.0021 u (ppm)	54.70	-0.0021 (ppm)	-2.8868
11/2/2017 00:35:28	R1710078-004	Sr (216.596 nm)	20.9291 o (ppm)	1.54	20.9291 (ppm)	312205.1050
11/2/2017 00:35:28	R1710078-004	Ti (336.122 nm)	0.0019 (ppm)	3.10	0.0019 (ppm)	-10.0386
11/2/2017 00:35:28	R1710078-004	Tl (351.923 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	12.7666
11/2/2017 00:35:28	R1710078-004	V (292.401 nm)	0.0002 (ppm)	65.36	0.0002 (ppm)	118.9454
11/2/2017 00:35:28	R1710078-004	Y (360.074 nm)	0.98 (Ratio)	0.70	0.98 (Ratio)	920016.68
11/2/2017 00:35:28	R1710078-004	Y_R (360.074 nm)	0.98 (Ratio)	0.70	0.98 (Ratio)	919806.00
11/2/2017 00:35:28	R1710078-004	Zn (213.857 nm)	0.0044 (ppm)	1.81	0.0044 (ppm)	96.2499
11/2/2017 00:38:47	R1710078-005	Ag (328.068 nm)	0.0003 (ppm)	26.39	0.0003 (ppm)	-103.8682
11/2/2017 00:38:47	R1710078-005	Al (394.401 nm)	0.0371 (ppm)	1.21	0.0371 (ppm)	579.2404
11/2/2017 00:38:47	R1710078-005	As (188.980 nm)	0.0020 (ppm)	99.55	0.0020 (ppm)	-1.0184
11/2/2017 00:38:47	R1710078-005	B (249.772 nm)	0.4791 (ppm)	0.35	0.4791 (ppm)	13820.7072
11/2/2017 00:38:47	R1710078-005	Ba (230.424 nm)	0.0207 (ppm)	0.58	0.0207 (ppm)	734.0573
11/2/2017 00:38:47	R1710078-005	Be (313.107 nm)	0.0000 (ppm)	57.37	0.0000 (ppm)	-526.5091
11/2/2017 00:38:47	R1710078-005	Ca (227.547 nm)	325.1913 o (ppm)	0.44	325.1913 (ppm)	19103.8887
11/2/2017 00:38:47	R1710078-005	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.7249
11/2/2017 00:38:47	R1710078-005	Co (230.786 nm)	-0.0005 u (ppm)	66.50	-0.0005 (ppm)	-6.3648
11/2/2017 00:38:47	R1710078-005	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-3.7082
11/2/2017 00:38:47	R1710078-005	Cu (327.395 nm)	0.0004 (ppm)	49.03	0.0004 (ppm)	47.8303
11/2/2017 00:38:47	R1710078-005	Fe (234.350 nm)	0.3095 (ppm)	0.20	0.3095 (ppm)	3667.7205
11/2/2017 00:38:47	R1710078-005	K (766.491 nm)	5.4060 (ppm)	0.78	5.4060 (ppm)	16748.8887
11/2/2017 00:38:47	R1710078-005	Mg (279.078 nm)	81.6447 o (ppm)	0.24	81.6447 (ppm)	164734.1663
11/2/2017 00:38:47	R1710078-005	Mn (257.610 nm)	0.0193 (ppm)	8.13	0.0193 (ppm)	6270.3292
11/2/2017 00:38:47	R1710078-005	Mo (202.032 nm)	0.0025 (ppm)	5.52	0.0025 (ppm)	43.7541
11/2/2017 00:38:47	R1710078-005	Na (588.995 nm)	106.5361 o (ppm)	0.75	106.5361 (ppm)	4882622.0985
11/2/2017 00:38:47	R1710078-005	Ni (230.299 nm)	-0.0042 u (ppm)	15.65	-0.0042 (ppm)	-54.8503
11/2/2017 00:38:47	R1710078-005	Pb (220.353 nm)	-0.0017 u (ppm)	49.46	-0.0017 (ppm)	1.9141
11/2/2017 00:38:47	R1710078-005	Sb (217.582 nm)	-0.0048 u (ppm)	30.03	-0.0048 (ppm)	-2.6761
11/2/2017 00:38:47	R1710078-005	Se (196.026 nm)	-0.0026 u (ppm)	> 100.00	-0.0026 (ppm)	3.2456
11/2/2017 00:38:47	R1710078-005	Sn (189.925 nm)	-0.0016 u (ppm)	76.35	-0.0016 (ppm)	-2.1307
11/2/2017 00:38:47	R1710078-005	Sr (216.596 nm)	21.4284 o (ppm)	0.85	21.4284 (ppm)	319652.9540
11/2/2017 00:38:47	R1710078-005	Ti (336.122 nm)	0.0022 (ppm)	1.75	0.0022 (ppm)	60.3442
11/2/2017 00:38:47	R1710078-005	Tl (351.923 nm)	0.0050 (ppm)	31.33	0.0050 (ppm)	28.7064
11/2/2017 00:38:47	R1710078-005	V (292.401 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	114.6337
11/2/2017 00:38:47	R1710078-005	Y (360.074 nm)	0.92 (Ratio)	0.63	0.92 (Ratio)	865342.38
11/2/2017 00:38:47	R1710078-005	Y_R (360.074 nm)	0.92 (Ratio)	0.62	0.92 (Ratio)	865340.04
11/2/2017 00:38:47	R1710078-005	Zn (213.857 nm)	0.0025 (ppm)	3.42	0.0025 (ppm)	42.8282
11/2/2017 00:42:06	Continuing Calibration Verification	Ag (328.068 nm)	0.4813 (ppm)	0.43	0.4813 (ppm)	35227.6260
11/2/2017 00:42:06	Continuing Calibration Verification	Al (394.401 nm)	9.4451 (ppm)	0.49	9.4451 (ppm)	126207.5295
11/2/2017 00:42:06	Continuing Calibration Verification	As (188.980 nm)	0.9427 (ppm)	1.07	0.9427 (ppm)	869.6237
11/2/2017 00:42:06	Continuing Calibration Verification	B (249.772 nm)	2.3644 (ppm)	0.37	2.3644 (ppm)	67846.1391
11/2/2017 00:42:06	Continuing Calibration Verification	Ba (230.424 nm)	10.0234 (ppm)	0.17	10.0234 (ppm)	350801.4473
11/2/2017 00:42:06	Continuing Calibration Verification	Be (313.107 nm)	0.2485 (ppm)	0.21	0.2485 (ppm)	376399.2876
11/2/2017 00:42:06	Continuing Calibration Verification	Ca (227.547 nm)	24.0783 (ppm)	0.81	24.0783 (ppm)	1420.2299
11/2/2017 00:42:06	Continuing Calibration Verification	Cd (214.439 nm)	0.4816 (ppm)	0.16	0.4816 (ppm)	10964.1342

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:42:06	Continuing Calibration Verification	Co (230.786 nm)	2.5188 (ppm)	0.36	2.5188 (ppm)	25922.1675
11/2/2017 00:42:06	Continuing Calibration Verification	Cr (267.716 nm)	0.4902 (ppm)	0.34	0.4902 (ppm)	25566.5089
11/2/2017 00:42:06	Continuing Calibration Verification	Cu (327.395 nm)	1.1921 (ppm)	0.61	1.1921 (ppm)	74894.2068
11/2/2017 00:42:06	Continuing Calibration Verification	Fe (234.350 nm)	4.7184 (ppm)	0.29	4.7184 (ppm)	54886.8541
11/2/2017 00:42:06	Continuing Calibration Verification	K (766.491 nm)	24.5751 (ppm)	0.67	24.5751 (ppm)	75934.7612
11/2/2017 00:42:06	Continuing Calibration Verification	Mg (279.078 nm)	24.2713 (ppm)	0.33	24.2713 (ppm)	48967.2564
11/2/2017 00:42:06	Continuing Calibration Verification	Mn (257.610 nm)	0.7375 (ppm)	0.21	0.7375 (ppm)	238620.8728
11/2/2017 00:42:06	Continuing Calibration Verification	Mo (202.032 nm)	2.3441 (ppm)	0.24	2.3441 (ppm)	25098.8105
11/2/2017 00:42:06	Continuing Calibration Verification	Na (588.995 nm)	24.7819 (ppm)	0.66	24.7819 (ppm)	1131184.9017
11/2/2017 00:42:06	Continuing Calibration Verification	Ni (230.299 nm)	1.9798 (ppm)	0.28	1.9798 (ppm)	13711.8953
11/2/2017 00:42:06	Continuing Calibration Verification	Pb (220.353 nm)	0.4838 (ppm)	0.16	0.4838 (ppm)	1085.4961
11/2/2017 00:42:06	Continuing Calibration Verification	Sb (217.582 nm)	4.7920 (ppm)	0.51	4.7920 (ppm)	6840.3514
11/2/2017 00:42:06	Continuing Calibration Verification	Se (196.026 nm)	0.4721 (ppm)	1.11	0.4721 (ppm)	417.9388
11/2/2017 00:42:06	Continuing Calibration Verification	Sn (189.925 nm)	4.9044 (ppm)	0.22	4.9044 (ppm)	6249.2423
11/2/2017 00:42:06	Continuing Calibration Verification	Sr (216.596 nm)	2.4388 (ppm)	0.07	2.4388 (ppm)	36379.6694
11/2/2017 00:42:06	Continuing Calibration Verification	Ti (336.122 nm)	2.4510 (ppm)	0.75	2.4510 (ppm)	537076.7216
11/2/2017 00:42:06	Continuing Calibration Verification	Tl (351.923 nm)	0.9755 (ppm)	0.66	0.9755 (ppm)	2784.0288
11/2/2017 00:42:06	Continuing Calibration Verification	V (292.401 nm)	2.4678 (ppm)	0.40	2.4678 (ppm)	88942.0400
11/2/2017 00:42:06	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.93	0.98 (Ratio)	919924.67
11/2/2017 00:42:06	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.93	0.98 (Ratio)	919745.59
11/2/2017 00:42:06	Continuing Calibration Verification	Zn (213.857 nm)	0.9732 (ppm)	0.29	0.9732 (ppm)	28244.4634
11/2/2017 00:45:24	Continuing Calibration Blank	Ag (328.068 nm)	0.0001 (ppm)	40.58	0.0001 (ppm)	-119.0211
11/2/2017 00:45:24	Continuing Calibration Blank	Al (394.401 nm)	-0.0004 u (ppm)	64.45	-0.0004 (ppm)	77.6966
11/2/2017 00:45:24	Continuing Calibration Blank	As (188.980 nm)	0.0025 (ppm)	60.82	0.0025 (ppm)	-0.5694
11/2/2017 00:45:24	Continuing Calibration Blank	B (249.772 nm)	0.0012 (ppm)	65.17	0.0012 (ppm)	124.6105
11/2/2017 00:45:24	Continuing Calibration Blank	Ba (230.424 nm)	0.0003 (ppm)	32.55	0.0003 (ppm)	17.7276
11/2/2017 00:45:24	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	34.98	0.0000 (ppm)	-476.6550
11/2/2017 00:45:24	Continuing Calibration Blank	Ca (227.547 nm)	0.0071 u (ppm)	> 100.00	0.0071 (ppm)	6.5893
11/2/2017 00:45:24	Continuing Calibration Blank	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	14.1227
11/2/2017 00:45:24	Continuing Calibration Blank	Co (230.786 nm)	-0.0002 u (ppm)	26.94	-0.0002 (ppm)	-2.9932
11/2/2017 00:45:24	Continuing Calibration Blank	Cr (267.716 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	3.7550
11/2/2017 00:45:24	Continuing Calibration Blank	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	26.3263
11/2/2017 00:45:24	Continuing Calibration Blank	Fe (234.350 nm)	0.0040 (ppm)	2.65	0.0040 (ppm)	119.1395
11/2/2017 00:45:24	Continuing Calibration Blank	K (766.491 nm)	0.0019 u (ppm)	> 100.00	0.0019 (ppm)	63.5041
11/2/2017 00:45:24	Continuing Calibration Blank	Mg (279.078 nm)	0.0032 (ppm)	61.33	0.0032 (ppm)	-0.5006
11/2/2017 00:45:24	Continuing Calibration Blank	Mn (257.610 nm)	0.0019 (ppm)	29.22	0.0019 (ppm)	638.0924
11/2/2017 00:45:24	Continuing Calibration Blank	Mo (202.032 nm)	0.0024 (ppm)	8.60	0.0024 (ppm)	42.0083
11/2/2017 00:45:24	Continuing Calibration Blank	Na (588.995 nm)	0.0101 (ppm)	1.58	0.0101 (ppm)	-5516.9943
11/2/2017 00:45:24	Continuing Calibration Blank	Ni (230.299 nm)	0.0008 (ppm)	76.08	0.0008 (ppm)	-20.7179
11/2/2017 00:45:24	Continuing Calibration Blank	Pb (220.353 nm)	-0.0007 u (ppm)	86.77	-0.0007 (ppm)	4.0770
11/2/2017 00:45:24	Continuing Calibration Blank	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	4.8935
11/2/2017 00:45:24	Continuing Calibration Blank	Se (196.026 nm)	0.0017 (ppm)	35.19	0.0017 (ppm)	7.0399
11/2/2017 00:45:24	Continuing Calibration Blank	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.5207
11/2/2017 00:45:24	Continuing Calibration Blank	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.3144
11/2/2017 00:45:24	Continuing Calibration Blank	Ti (336.122 nm)	0.0008 (ppm)	10.16	0.0008 (ppm)	-241.4299
11/2/2017 00:45:24	Continuing Calibration Blank	Tl (351.923 nm)	-0.0015 u (ppm)	> 100.00	-0.0015 (ppm)	10.3242
11/2/2017 00:45:24	Continuing Calibration Blank	V (292.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	104.1661
11/2/2017 00:45:24	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.87	1.03 (Ratio)	966672.62
11/2/2017 00:45:24	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.87	1.03 (Ratio)	966248.15
11/2/2017 00:45:24	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-29.8230
11/2/2017 00:48:43	R1710078-006	Ag (328.068 nm)	0.0002 (ppm)	84.41	0.0002 (ppm)	-111.3446

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:48:43	R1710078-006	Al (394.401 nm)	0.0338 (ppm)	1.98	0.0338 (ppm)	534.2746
11/2/2017 00:48:43	R1710078-006	As (188.980 nm)	0.0031 u (ppm)	> 100.00	0.0031 (ppm)	0.0033
11/2/2017 00:48:43	R1710078-006	B (249.772 nm)	0.1124 (ppm)	0.13	0.1124 (ppm)	3311.6604
11/2/2017 00:48:43	R1710078-006	Ba (230.424 nm)	0.0748 (ppm)	0.36	0.0748 (ppm)	2624.4301
11/2/2017 00:48:43	R1710078-006	Be (313.107 nm)	0.0000 (ppm)	42.93	0.0000 (ppm)	-523.3364
11/2/2017 00:48:43	R1710078-006	Ca (227.547 nm)	93.4245 o (ppm)	0.60	93.4245 (ppm)	5492.7714
11/2/2017 00:48:43	R1710078-006	Cd (214.439 nm)	-0.0001 u (ppm)	24.26	-0.0001 (ppm)	9.4873
11/2/2017 00:48:43	R1710078-006	Co (230.786 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-4.5903
11/2/2017 00:48:43	R1710078-006	Cr (267.716 nm)	-0.0002 u (ppm)	55.93	-0.0002 (ppm)	-11.7013
11/2/2017 00:48:43	R1710078-006	Cu (327.395 nm)	0.0002 (ppm)	69.43	0.0002 (ppm)	33.8711
11/2/2017 00:48:43	R1710078-006	Fe (234.350 nm)	0.1979 (ppm)	0.33	0.1979 (ppm)	2372.1618
11/2/2017 00:48:43	R1710078-006	K (766.491 nm)	3.7704 (ppm)	0.79	3.7704 (ppm)	11698.9235
11/2/2017 00:48:43	R1710078-006	Mg (279.078 nm)	34.4133 (ppm)	0.41	34.4133 (ppm)	69431.6022
11/2/2017 00:48:43	R1710078-006	Mn (257.610 nm)	0.0183 (ppm)	8.94	0.0183 (ppm)	5948.8303
11/2/2017 00:48:43	R1710078-006	Mo (202.032 nm)	0.0106 (ppm)	0.89	0.0106 (ppm)	130.2806
11/2/2017 00:48:43	R1710078-006	Na (588.995 nm)	19.7642 (ppm)	0.72	19.7642 (ppm)	900936.9938
11/2/2017 00:48:43	R1710078-006	Ni (230.299 nm)	-0.0039 u (ppm)	10.47	-0.0039 (ppm)	-52.8965
11/2/2017 00:48:43	R1710078-006	Pb (220.353 nm)	-0.0017 u (ppm)	57.94	-0.0017 (ppm)	1.8330
11/2/2017 00:48:43	R1710078-006	Sb (217.582 nm)	-0.0031 u (ppm)	9.65	-0.0031 (ppm)	-0.2595
11/2/2017 00:48:43	R1710078-006	Se (196.026 nm)	-0.0039 u (ppm)	79.03	-0.0039 (ppm)	2.0984
11/2/2017 00:48:43	R1710078-006	Sn (189.925 nm)	-0.0021 u (ppm)	15.59	-0.0021 (ppm)	-2.7851
11/2/2017 00:48:43	R1710078-006	Sr (216.596 nm)	17.7903 o (ppm)	1.05	17.7903 (ppm)	265382.1836
11/2/2017 00:48:43	R1710078-006	Ti (336.122 nm)	0.0012 (ppm)	1.64	0.0012 (ppm)	-153.9823
11/2/2017 00:48:43	R1710078-006	Tl (351.923 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	11.4846
11/2/2017 00:48:43	R1710078-006	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	111.0081
11/2/2017 00:48:43	R1710078-006	Y (360.074 nm)	0.98 (Ratio)	0.66	0.98 (Ratio)	916862.32
11/2/2017 00:48:43	R1710078-006	Y_R (360.074 nm)	0.98 (Ratio)	0.67	0.98 (Ratio)	916667.39
11/2/2017 00:48:43	R1710078-006	Zn (213.857 nm)	0.0043 (ppm)	2.38	0.0043 (ppm)	93.4013
11/2/2017 00:52:01	R1710078-007	Ag (328.068 nm)	0.0002 (ppm)	20.33	0.0002 (ppm)	-110.8784
11/2/2017 00:52:01	R1710078-007	Al (394.401 nm)	0.0330 (ppm)	1.57	0.0330 (ppm)	524.3234
11/2/2017 00:52:01	R1710078-007	As (188.980 nm)	0.0030 (ppm)	44.94	0.0030 (ppm)	-0.1171
11/2/2017 00:52:01	R1710078-007	B (249.772 nm)	0.6282 (ppm)	0.31	0.6282 (ppm)	18092.1579
11/2/2017 00:52:01	R1710078-007	Ba (230.424 nm)	0.0081 (ppm)	1.18	0.0081 (ppm)	291.6575
11/2/2017 00:52:01	R1710078-007	Be (313.107 nm)	0.0000 (ppm)	92.34	0.0000 (ppm)	-518.2205
11/2/2017 00:52:01	R1710078-007	Ca (227.547 nm)	444.2039 o (ppm)	0.59	444.2039 (ppm)	26093.2226
11/2/2017 00:52:01	R1710078-007	Cd (214.439 nm)	-0.0001 u (ppm)	85.26	-0.0001 (ppm)	11.2908
11/2/2017 00:52:01	R1710078-007	Co (230.786 nm)	-0.0003 u (ppm)	45.83	-0.0003 (ppm)	-4.4275
11/2/2017 00:52:01	R1710078-007	Cr (267.716 nm)	-0.0005 u (ppm)	23.66	-0.0005 (ppm)	-25.2786
11/2/2017 00:52:01	R1710078-007	Cu (327.395 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	17.8521
11/2/2017 00:52:01	R1710078-007	Fe (234.350 nm)	0.2885 (ppm)	0.37	0.2885 (ppm)	3423.8679
11/2/2017 00:52:01	R1710078-007	K (766.491 nm)	5.5428 (ppm)	0.55	5.5428 (ppm)	17171.3752
11/2/2017 00:52:01	R1710078-007	Mg (279.078 nm)	84.3977 o (ppm)	0.43	84.3977 (ppm)	170289.1284
11/2/2017 00:52:01	R1710078-007	Mn (257.610 nm)	0.0207 (ppm)	6.21	0.0207 (ppm)	6732.5870
11/2/2017 00:52:01	R1710078-007	Mo (202.032 nm)	0.0017 (ppm)	5.61	0.0017 (ppm)	34.8211
11/2/2017 00:52:01	R1710078-007	Na (588.995 nm)	115.8939 o (ppm)	0.54	115.8939 (ppm)	5312021.9397
11/2/2017 00:52:01	R1710078-007	Ni (230.299 nm)	-0.0035 u (ppm)	47.15	-0.0035 (ppm)	-50.4915
11/2/2017 00:52:01	R1710078-007	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	4.1443
11/2/2017 00:52:01	R1710078-007	Sb (217.582 nm)	-0.0025 u (ppm)	> 100.00	-0.0025 (ppm)	0.6122
11/2/2017 00:52:01	R1710078-007	Se (196.026 nm)	-0.0035 u (ppm)	> 100.00	-0.0035 (ppm)	2.4718
11/2/2017 00:52:01	R1710078-007	Sn (189.925 nm)	-0.0017 u (ppm)	> 100.00	-0.0017 (ppm)	-2.3402
11/2/2017 00:52:01	R1710078-007	Sr (216.596 nm)	16.4460 o (ppm)	0.50	16.4460 (ppm)	245328.8347

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:52:01	R1710078-007	Ti (336.122 nm)	0.0027 (ppm)	1.44	0.0027 (ppm)	178.6921
11/2/2017 00:52:01	R1710078-007	Tl (351.923 nm)	0.0074 (ppm)	30.72	0.0074 (ppm)	35.6998
11/2/2017 00:52:01	R1710078-007	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	113.3949
11/2/2017 00:52:01	R1710078-007	Y (360.074 nm)	0.92 (Ratio)	0.86	0.92 (Ratio)	857257.49
11/2/2017 00:52:01	R1710078-007	Y_R (360.074 nm)	0.92 (Ratio)	0.86	0.92 (Ratio)	857209.77
11/2/2017 00:52:01	R1710078-007	Zn (213.857 nm)	0.0020 (ppm)	3.68	0.0020 (ppm)	27.8656
11/2/2017 00:55:19	R1710078-009	Ag (328.068 nm)	0.0002 (ppm)	11.52	0.0002 (ppm)	-108.4443
11/2/2017 00:55:19	R1710078-009	Al (394.401 nm)	0.0273 (ppm)	0.87	0.0273 (ppm)	447.3049
11/2/2017 00:55:19	R1710078-009	As (188.980 nm)	0.0032 (ppm)	43.85	0.0032 (ppm)	0.1039
11/2/2017 00:55:19	R1710078-009	B (249.772 nm)	0.1027 (ppm)	0.92	0.1027 (ppm)	3033.9481
11/2/2017 00:55:19	R1710078-009	Ba (230.424 nm)	0.0529 (ppm)	0.46	0.0529 (ppm)	1860.6010
11/2/2017 00:55:19	R1710078-009	Be (313.107 nm)	0.0000 (ppm)	59.21	0.0000 (ppm)	-513.8856
11/2/2017 00:55:19	R1710078-009	Ca (227.547 nm)	95.5040 o (ppm)	0.39	95.5040 (ppm)	5614.8934
11/2/2017 00:55:19	R1710078-009	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	10.5268
11/2/2017 00:55:19	R1710078-009	Co (230.786 nm)	0.0012 (ppm)	8.73	0.0012 (ppm)	11.2510
11/2/2017 00:55:19	R1710078-009	Cr (267.716 nm)	-0.0002 u (ppm)	31.42	-0.0002 (ppm)	-10.0507
11/2/2017 00:55:19	R1710078-009	Cu (327.395 nm)	0.0003 (ppm)	24.41	0.0003 (ppm)	41.2232
11/2/2017 00:55:19	R1710078-009	Fe (234.350 nm)	0.1220 (ppm)	0.23	0.1220 (ppm)	1489.7065
11/2/2017 00:55:19	R1710078-009	K (766.491 nm)	4.9183 (ppm)	0.60	4.9183 (ppm)	15243.0156
11/2/2017 00:55:19	R1710078-009	Mg (279.078 nm)	43.3668 (ppm)	0.27	43.3668 (ppm)	87497.6665
11/2/2017 00:55:19	R1710078-009	Mn (257.610 nm)	0.0115 (ppm)	16.40	0.0115 (ppm)	3745.2972
11/2/2017 00:55:19	R1710078-009	Mo (202.032 nm)	0.0003 (ppm)	23.94	0.0003 (ppm)	20.4819
11/2/2017 00:55:19	R1710078-009	Na (588.995 nm)	17.9941 (ppm)	0.74	17.9941 (ppm)	819710.9922
11/2/2017 00:55:19	R1710078-009	Ni (230.299 nm)	-0.0040 u (ppm)	6.20	-0.0040 (ppm)	-53.5696
11/2/2017 00:55:19	R1710078-009	Pb (220.353 nm)	-0.0021 u (ppm)	40.19	-0.0021 (ppm)	1.0073
11/2/2017 00:55:19	R1710078-009	Sb (217.582 nm)	-0.0020 u (ppm)	> 100.00	-0.0020 (ppm)	1.2255
11/2/2017 00:55:19	R1710078-009	Se (196.026 nm)	-0.0021 u (ppm)	67.87	-0.0021 (ppm)	3.7236
11/2/2017 00:55:19	R1710078-009	Sn (189.925 nm)	-0.0015 u (ppm)	73.52	-0.0015 (ppm)	-2.0749
11/2/2017 00:55:19	R1710078-009	Sr (216.596 nm)	11.5602 o (ppm)	0.47	11.5602 (ppm)	172446.3800
11/2/2017 00:55:19	R1710078-009	Ti (336.122 nm)	0.0009 (ppm)	12.91	0.0009 (ppm)	-230.2929
11/2/2017 00:55:19	R1710078-009	Tl (351.923 nm)	-0.0020 u (ppm)	36.31	-0.0020 (ppm)	8.8570
11/2/2017 00:55:19	R1710078-009	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	113.4672
11/2/2017 00:55:19	R1710078-009	Y (360.074 nm)	0.97 (Ratio)	0.67	0.97 (Ratio)	910939.97
11/2/2017 00:55:19	R1710078-009	Y_R (360.074 nm)	0.97 (Ratio)	0.67	0.97 (Ratio)	910755.66
11/2/2017 00:55:19	R1710078-009	Zn (213.857 nm)	0.0029 (ppm)	2.86	0.0029 (ppm)	53.1279
11/2/2017 00:58:38	R1710078-010	Ag (328.068 nm)	0.0002 (ppm)	17.69	0.0002 (ppm)	-113.2887
11/2/2017 00:58:38	R1710078-010	Al (394.401 nm)	0.0286 (ppm)	3.35	0.0286 (ppm)	465.0012
11/2/2017 00:58:38	R1710078-010	As (188.980 nm)	0.0024 (ppm)	84.35	0.0024 (ppm)	-0.7153
11/2/2017 00:58:38	R1710078-010	B (249.772 nm)	0.1159 (ppm)	0.24	0.1159 (ppm)	3412.0458
11/2/2017 00:58:38	R1710078-010	Ba (230.424 nm)	0.0517 (ppm)	0.27	0.0517 (ppm)	1818.6440
11/2/2017 00:58:38	R1710078-010	Be (313.107 nm)	0.0000 (ppm)	69.66	0.0000 (ppm)	-528.0690
11/2/2017 00:58:38	R1710078-010	Ca (227.547 nm)	58.9072 o (ppm)	0.68	58.9072 (ppm)	3465.6533
11/2/2017 00:58:38	R1710078-010	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	12.9959
11/2/2017 00:58:38	R1710078-010	Co (230.786 nm)	-0.0004 u (ppm)	54.92	-0.0004 (ppm)	-5.0086
11/2/2017 00:58:38	R1710078-010	Cr (267.716 nm)	-0.0003 u (ppm)	15.60	-0.0003 (ppm)	-15.1233
11/2/2017 00:58:38	R1710078-010	Cu (327.395 nm)	0.0002 (ppm)	98.79	0.0002 (ppm)	36.6047
11/2/2017 00:58:38	R1710078-010	Fe (234.350 nm)	0.2133 (ppm)	0.12	0.2133 (ppm)	2550.7736
11/2/2017 00:58:38	R1710078-010	K (766.491 nm)	3.8785 (ppm)	0.61	3.8785 (ppm)	12032.4827
11/2/2017 00:58:38	R1710078-010	Mg (279.078 nm)	54.8674 o (ppm)	0.24	54.8674 (ppm)	110703.3535
11/2/2017 00:58:38	R1710078-010	Mn (257.610 nm)	0.0125 (ppm)	15.92	0.0125 (ppm)	4068.8578
11/2/2017 00:58:38	R1710078-010	Mo (202.032 nm)	0.0019 (ppm)	14.91	0.0019 (ppm)	36.8128

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 00:58:38	R1710078-010	Na (588.995 nm)	22.8111 (ppm)	0.90	22.8111 (ppm)	1040748.7370
11/2/2017 00:58:38	R1710078-010	Ni (230.299 nm)	-0.0043 u (ppm)	6.16	-0.0043 (ppm)	-55.9174
11/2/2017 00:58:38	R1710078-010	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	3.8405
11/2/2017 00:58:38	R1710078-010	Sb (217.582 nm)	-0.0023 u (ppm)	63.82	-0.0023 (ppm)	0.8197
11/2/2017 00:58:38	R1710078-010	Se (196.026 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	5.0851
11/2/2017 00:58:38	R1710078-010	Sn (189.925 nm)	-0.0011 u (ppm)	55.25	-0.0011 (ppm)	-1.5687
11/2/2017 00:58:38	R1710078-010	Sr (216.596 nm)	7.8364 o (ppm)	0.32	7.8364 (ppm)	116896.3599
11/2/2017 00:58:38	R1710078-010	Ti (336.122 nm)	0.0012 (ppm)	2.83	0.0012 (ppm)	-158.4402
11/2/2017 00:58:38	R1710078-010	Tl (351.923 nm)	-0.0028 u (ppm)	> 100.00	-0.0028 (ppm)	6.7879
11/2/2017 00:58:38	R1710078-010	V (292.401 nm)	0.0001 (ppm)	87.28	0.0001 (ppm)	115.4714
11/2/2017 00:58:38	R1710078-010	Y (360.074 nm)	0.98 (Ratio)	0.62	0.98 (Ratio)	915675.30
11/2/2017 00:58:38	R1710078-010	Y_R (360.074 nm)	0.98 (Ratio)	0.61	0.98 (Ratio)	915496.84
11/2/2017 00:58:38	R1710078-010	Zn (213.857 nm)	0.0015 (ppm)	3.67	0.0015 (ppm)	14.2423
11/2/2017 01:01:56	R1710078-011	Ag (328.068 nm)	0.0003 (ppm)	43.55	0.0003 (ppm)	-104.7326
11/2/2017 01:01:56	R1710078-011	Al (394.401 nm)	0.0330 (ppm)	2.94	0.0330 (ppm)	524.2349
11/2/2017 01:01:56	R1710078-011	As (188.980 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	-2.2713
11/2/2017 01:01:56	R1710078-011	B (249.772 nm)	0.1342 (ppm)	0.61	0.1342 (ppm)	3936.5215
11/2/2017 01:01:56	R1710078-011	Ba (230.424 nm)	0.0437 (ppm)	0.73	0.0437 (ppm)	1538.7870
11/2/2017 01:01:56	R1710078-011	Be (313.107 nm)	0.0000 (ppm)	37.02	0.0000 (ppm)	-535.8434
11/2/2017 01:01:56	R1710078-011	Ca (227.547 nm)	242.8641 o (ppm)	0.59	242.8641 (ppm)	14269.0058
11/2/2017 01:01:56	R1710078-011	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	10.6037
11/2/2017 01:01:56	R1710078-011	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.6532
11/2/2017 01:01:56	R1710078-011	Cr (267.716 nm)	-0.0003 u (ppm)	26.64	-0.0003 (ppm)	-18.6829
11/2/2017 01:01:56	R1710078-011	Cu (327.395 nm)	0.0007 (ppm)	15.87	0.0007 (ppm)	66.4005
11/2/2017 01:01:56	R1710078-011	Fe (234.350 nm)	0.0057 (ppm)	3.27	0.0057 (ppm)	139.3225
11/2/2017 01:01:56	R1710078-011	K (766.491 nm)	7.7491 (ppm)	0.62	7.7491 (ppm)	23983.2947
11/2/2017 01:01:56	R1710078-011	Mg (279.078 nm)	81.7163 o (ppm)	0.38	81.7163 (ppm)	164878.6997
11/2/2017 01:01:56	R1710078-011	Mn (257.610 nm)	0.0134 (ppm)	12.16	0.0134 (ppm)	4359.5623
11/2/2017 01:01:56	R1710078-011	Mo (202.032 nm)	0.0015 (ppm)	26.40	0.0015 (ppm)	32.6624
11/2/2017 01:01:56	R1710078-011	Na (588.995 nm)	116.6868 o (ppm)	0.82	116.6868 (ppm)	5348402.4222
11/2/2017 01:01:56	R1710078-011	Ni (230.299 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-27.2757
11/2/2017 01:01:56	R1710078-011	Pb (220.353 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	2.9610
11/2/2017 01:01:56	R1710078-011	Sb (217.582 nm)	-0.0033 u (ppm)	63.68	-0.0033 (ppm)	-0.5411
11/2/2017 01:01:56	R1710078-011	Se (196.026 nm)	-0.0058 u (ppm)	38.39	-0.0058 (ppm)	0.4401
11/2/2017 01:01:56	R1710078-011	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.2077
11/2/2017 01:01:56	R1710078-011	Sr (216.596 nm)	1.7146 (ppm)	1.07	1.7146 (ppm)	25575.8050
11/2/2017 01:01:56	R1710078-011	Ti (336.122 nm)	0.0017 (ppm)	2.43	0.0017 (ppm)	-54.4988
11/2/2017 01:01:56	R1710078-011	Tl (351.923 nm)	0.0026 (ppm)	94.13	0.0026 (ppm)	22.1067
11/2/2017 01:01:56	R1710078-011	V (292.401 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	114.3600
11/2/2017 01:01:56	R1710078-011	Y (360.074 nm)	0.93 (Ratio)	0.77	0.93 (Ratio)	870934.25
11/2/2017 01:01:56	R1710078-011	Y_R (360.074 nm)	0.93 (Ratio)	0.77	0.93 (Ratio)	870726.61
11/2/2017 01:01:56	R1710078-011	Zn (213.857 nm)	0.0023 (ppm)	3.83	0.0023 (ppm)	36.7669
11/2/2017 01:05:15	R1710078-012	Ag (328.068 nm)	0.0002 (ppm)	63.24	0.0002 (ppm)	-110.7469
11/2/2017 01:05:15	R1710078-012	Al (394.401 nm)	0.0304 (ppm)	1.03	0.0304 (ppm)	489.8001
11/2/2017 01:05:15	R1710078-012	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.1841
11/2/2017 01:05:15	R1710078-012	B (249.772 nm)	0.1848 (ppm)	0.42	0.1848 (ppm)	5387.2818
11/2/2017 01:05:15	R1710078-012	Ba (230.424 nm)	0.0694 (ppm)	0.61	0.0694 (ppm)	2435.8522
11/2/2017 01:05:15	R1710078-012	Be (313.107 nm)	0.0000 (ppm)	35.40	0.0000 (ppm)	-526.3987
11/2/2017 01:05:15	R1710078-012	Ca (227.547 nm)	237.7005 o (ppm)	0.70	237.7005 (ppm)	13965.7600
11/2/2017 01:05:15	R1710078-012	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	10.6204
11/2/2017 01:05:15	R1710078-012	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.9052

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:05:15	R1710078-012	Cr (267.716 nm)	-0.0004 u (ppm)	14.66	-0.0004 (ppm)	-23.5371
11/2/2017 01:05:15	R1710078-012	Cu (327.395 nm)	0.0002 (ppm)	58.59	0.0002 (ppm)	36.1136
11/2/2017 01:05:15	R1710078-012	Fe (234.350 nm)	1.4764 (ppm)	0.37	1.4764 (ppm)	17224.6728
11/2/2017 01:05:15	R1710078-012	K (766.491 nm)	12.7901 (ppm)	0.71	12.7901 (ppm)	39547.7877
11/2/2017 01:05:15	R1710078-012	Mg (279.078 nm)	58.4457 o (ppm)	0.43	58.4457 (ppm)	117923.7053
11/2/2017 01:05:15	R1710078-012	Mn (257.610 nm)	0.4755 (ppm)	0.45	0.4755 (ppm)	153874.9144
11/2/2017 01:05:15	R1710078-012	Mo (202.032 nm)	-0.0006 u (ppm)	23.01	-0.0006 (ppm)	10.5955
11/2/2017 01:05:15	R1710078-012	Na (588.995 nm)	173.4778 o (ppm)	0.80	173.4778 (ppm)	7954362.8400
11/2/2017 01:05:15	R1710078-012	Ni (230.299 nm)	-0.0030 u (ppm)	32.10	-0.0030 (ppm)	-47.0000
11/2/2017 01:05:15	R1710078-012	Pb (220.353 nm)	-0.0022 u (ppm)	27.45	-0.0022 (ppm)	0.6407
11/2/2017 01:05:15	R1710078-012	Sb (217.582 nm)	-0.0036 u (ppm)	29.92	-0.0036 (ppm)	-1.0081
11/2/2017 01:05:15	R1710078-012	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	4.6204
11/2/2017 01:05:15	R1710078-012	Sn (189.925 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-1.8615
11/2/2017 01:05:15	R1710078-012	Sr (216.596 nm)	0.9299 (ppm)	0.24	0.9299 (ppm)	13870.7474
11/2/2017 01:05:15	R1710078-012	Ti (336.122 nm)	0.0017 (ppm)	1.53	0.0017 (ppm)	-43.5224
11/2/2017 01:05:15	R1710078-012	Tl (351.923 nm)	0.0052 (ppm)	45.55	0.0052 (ppm)	29.3000
11/2/2017 01:05:15	R1710078-012	V (292.401 nm)	0.0003 (ppm)	57.23	0.0003 (ppm)	120.4538
11/2/2017 01:05:15	R1710078-012	Y (360.074 nm)	0.92 (Ratio)	0.67	0.92 (Ratio)	865835.17
11/2/2017 01:05:15	R1710078-012	Y_R (360.074 nm)	0.92 (Ratio)	0.66	0.92 (Ratio)	865720.67
11/2/2017 01:05:15	R1710078-012	Zn (213.857 nm)	0.0016 (ppm)	0.47	0.0016 (ppm)	15.5077
11/2/2017 01:08:34	R1710078-013	Ag (328.068 nm)	0.0003 (ppm)	31.09	0.0003 (ppm)	-104.2751
11/2/2017 01:08:34	R1710078-013	Al (394.401 nm)	0.0387 (ppm)	2.17	0.0387 (ppm)	600.3215
11/2/2017 01:08:34	R1710078-013	As (188.980 nm)	0.0025 u (ppm)	> 100.00	0.0025 (ppm)	-0.5536
11/2/2017 01:08:34	R1710078-013	B (249.772 nm)	0.3465 (ppm)	0.44	0.3465 (ppm)	10020.4449
11/2/2017 01:08:34	R1710078-013	Ba (230.424 nm)	0.0247 (ppm)	1.00	0.0247 (ppm)	871.9448
11/2/2017 01:08:34	R1710078-013	Be (313.107 nm)	0.0000 (ppm)	32.72	0.0000 (ppm)	-525.3950
11/2/2017 01:08:34	R1710078-013	Ca (227.547 nm)	221.5300 o (ppm)	0.59	221.5300 (ppm)	13016.1043
11/2/2017 01:08:34	R1710078-013	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.2948
11/2/2017 01:08:34	R1710078-013	Co (230.786 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.0305
11/2/2017 01:08:34	R1710078-013	Cr (267.716 nm)	-0.0006 u (ppm)	15.65	-0.0006 (ppm)	-29.9836
11/2/2017 01:08:34	R1710078-013	Cu (327.395 nm)	0.0002 (ppm)	15.18	0.0002 (ppm)	35.7722
11/2/2017 01:08:34	R1710078-013	Fe (234.350 nm)	1.3637 (ppm)	0.42	1.3637 (ppm)	15914.4938
11/2/2017 01:08:34	R1710078-013	K (766.491 nm)	27.3714 (ppm)	0.57	27.3714 (ppm)	84568.5266
11/2/2017 01:08:34	R1710078-013	Mg (279.078 nm)	37.2731 (ppm)	0.43	37.2731 (ppm)	75202.0442
11/2/2017 01:08:34	R1710078-013	Mn (257.610 nm)	0.7857 (ppm)	0.19	0.7857 (ppm)	254237.8307
11/2/2017 01:08:34	R1710078-013	Mo (202.032 nm)	-0.0004 u (ppm)	45.28	-0.0004 (ppm)	12.8956
11/2/2017 01:08:34	R1710078-013	Na (588.995 nm)	130.3533 o (ppm)	0.64	130.3533 (ppm)	5975516.4548
11/2/2017 01:08:34	R1710078-013	Ni (230.299 nm)	-0.0019 u (ppm)	50.07	-0.0019 (ppm)	-39.3769
11/2/2017 01:08:34	R1710078-013	Pb (220.353 nm)	-0.0014 u (ppm)	69.44	-0.0014 (ppm)	2.5647
11/2/2017 01:08:34	R1710078-013	Sb (217.582 nm)	-0.0014 u (ppm)	53.97	-0.0014 (ppm)	2.1650
11/2/2017 01:08:34	R1710078-013	Se (196.026 nm)	-0.0052 u (ppm)	67.38	-0.0052 (ppm)	1.0008
11/2/2017 01:08:34	R1710078-013	Sn (189.925 nm)	-0.0025 u (ppm)	35.09	-0.0025 (ppm)	-3.3938
11/2/2017 01:08:34	R1710078-013	Sr (216.596 nm)	0.6828 (ppm)	0.45	0.6828 (ppm)	10184.3552
11/2/2017 01:08:34	R1710078-013	Ti (336.122 nm)	0.0021 (ppm)	1.29	0.0021 (ppm)	41.6479
11/2/2017 01:08:34	R1710078-013	Tl (351.923 nm)	0.0041 (ppm)	36.82	0.0041 (ppm)	26.2066
11/2/2017 01:08:34	R1710078-013	V (292.401 nm)	0.0005 (ppm)	28.05	0.0005 (ppm)	128.1693
11/2/2017 01:08:34	R1710078-013	Y (360.074 nm)	0.93 (Ratio)	0.80	0.93 (Ratio)	875025.02
11/2/2017 01:08:34	R1710078-013	Y_R (360.074 nm)	0.93 (Ratio)	0.79	0.93 (Ratio)	874658.38
11/2/2017 01:08:34	R1710078-013	Zn (213.857 nm)	0.0152 (ppm)	1.51	0.0152 (ppm)	411.4750
11/2/2017 01:11:53	R1710078-014	Ag (328.068 nm)	0.0002 (ppm)	6.25	0.0002 (ppm)	-108.5356
11/2/2017 01:11:53	R1710078-014	Al (394.401 nm)	0.0436 (ppm)	1.09	0.0436 (ppm)	665.1319

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:11:53	R1710078-014	As (188.980 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-1.8291
11/2/2017 01:11:53	R1710078-014	B (249.772 nm)	0.1978 (ppm)	0.47	0.1978 (ppm)	5757.7907
11/2/2017 01:11:53	R1710078-014	Ba (230.424 nm)	0.0621 (ppm)	0.49	0.0621 (ppm)	2182.0853
11/2/2017 01:11:53	R1710078-014	Be (313.107 nm)	0.0000 (ppm)	34.29	0.0000 (ppm)	-540.8858
11/2/2017 01:11:53	R1710078-014	Ca (227.547 nm)	194.0290 o (ppm)	0.51	194.0290 (ppm)	11401.0379
11/2/2017 01:11:53	R1710078-014	Cd (214.439 nm)	-0.0001 u (ppm)	51.26	-0.0001 (ppm)	10.4786
11/2/2017 01:11:53	R1710078-014	Co (230.786 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	1.6566
11/2/2017 01:11:53	R1710078-014	Cr (267.716 nm)	0.0026 (ppm)	1.62	0.0026 (ppm)	133.5104
11/2/2017 01:11:53	R1710078-014	Cu (327.395 nm)	0.0007 (ppm)	13.26	0.0007 (ppm)	68.0382
11/2/2017 01:11:53	R1710078-014	Fe (234.350 nm)	0.1132 (ppm)	0.31	0.1132 (ppm)	1388.0015
11/2/2017 01:11:53	R1710078-014	K (766.491 nm)	30.7944 (ppm)	0.56	30.7944 (ppm)	95137.1877
11/2/2017 01:11:53	R1710078-014	Mg (279.078 nm)	58.9078 o (ppm)	0.27	58.9078 (ppm)	118855.9933
11/2/2017 01:11:53	R1710078-014	Mn (257.610 nm)	0.0403 (ppm)	4.06	0.0403 (ppm)	13076.8411
11/2/2017 01:11:53	R1710078-014	Mo (202.032 nm)	0.0010 (ppm)	21.56	0.0010 (ppm)	27.3487
11/2/2017 01:11:53	R1710078-014	Na (588.995 nm)	190.4416 o (ppm)	0.67	190.4416 (ppm)	8732775.6491
11/2/2017 01:11:53	R1710078-014	Ni (230.299 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-19.9740
11/2/2017 01:11:53	R1710078-014	Pb (220.353 nm)	-0.0031 u (ppm)	16.16	-0.0031 (ppm)	-1.3737
11/2/2017 01:11:53	R1710078-014	Sb (217.582 nm)	-0.0030 u (ppm)	40.39	-0.0030 (ppm)	-0.2018
11/2/2017 01:11:53	R1710078-014	Se (196.026 nm)	-0.0044 u (ppm)	97.15	-0.0044 (ppm)	1.7125
11/2/2017 01:11:53	R1710078-014	Sn (189.925 nm)	-0.0011 u (ppm)	54.11	-0.0011 (ppm)	-1.5648
11/2/2017 01:11:53	R1710078-014	Sr (216.596 nm)	1.4419 (ppm)	0.71	1.4419 (ppm)	21507.8807
11/2/2017 01:11:53	R1710078-014	Ti (336.122 nm)	0.0019 (ppm)	14.66	0.0019 (ppm)	-8.1874
11/2/2017 01:11:53	R1710078-014	Tl (351.923 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	16.8648
11/2/2017 01:11:53	R1710078-014	V (292.401 nm)	0.0003 (ppm)	46.01	0.0003 (ppm)	119.7061
11/2/2017 01:11:53	R1710078-014	Y (360.074 nm)	0.92 (Ratio)	0.73	0.92 (Ratio)	865972.46
11/2/2017 01:11:53	R1710078-014	Y_R (360.074 nm)	0.92 (Ratio)	0.74	0.92 (Ratio)	865628.32
11/2/2017 01:11:53	R1710078-014	Zn (213.857 nm)	0.0025 (ppm)	1.71	0.0025 (ppm)	41.5782
11/2/2017 01:15:11	R1710078-015	Ag (328.068 nm)	0.0003 (ppm)	55.12	0.0003 (ppm)	-106.7348
11/2/2017 01:15:11	R1710078-015	Al (394.401 nm)	0.0298 (ppm)	2.54	0.0298 (ppm)	481.8027
11/2/2017 01:15:11	R1710078-015	As (188.980 nm)	0.0017 (ppm)	> 100.00	0.0017 (ppm)	-1.3128
11/2/2017 01:15:11	R1710078-015	B (249.772 nm)	0.1662 (ppm)	0.20	0.1662 (ppm)	4854.1669
11/2/2017 01:15:11	R1710078-015	Ba (230.424 nm)	0.0813 (ppm)	0.10	0.0813 (ppm)	2851.8851
11/2/2017 01:15:11	R1710078-015	Be (313.107 nm)	0.0000 (ppm)	30.90	0.0000 (ppm)	-538.2694
11/2/2017 01:15:11	R1710078-015	Ca (227.547 nm)	211.3346 o (ppm)	0.50	211.3346 (ppm)	12417.3514
11/2/2017 01:15:11	R1710078-015	Cd (214.439 nm)	-0.0001 u (ppm)	38.74	-0.0001 (ppm)	9.7322
11/2/2017 01:15:11	R1710078-015	Co (230.786 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	1.0245
11/2/2017 01:15:11	R1710078-015	Cr (267.716 nm)	0.0014 (ppm)	6.54	0.0014 (ppm)	70.0883
11/2/2017 01:15:11	R1710078-015	Cu (327.395 nm)	0.0012 (ppm)	9.11	0.0012 (ppm)	95.6645
11/2/2017 01:15:11	R1710078-015	Fe (234.350 nm)	0.0326 (ppm)	0.28	0.0326 (ppm)	450.9131
11/2/2017 01:15:11	R1710078-015	K (766.491 nm)	9.7290 (ppm)	0.55	9.7290 (ppm)	30096.3678
11/2/2017 01:15:11	R1710078-015	Mg (279.078 nm)	76.2255 o (ppm)	0.28	76.2255 (ppm)	153799.3871
11/2/2017 01:15:11	R1710078-015	Mn (257.610 nm)	0.0267 (ppm)	5.71	0.0267 (ppm)	8656.7562
11/2/2017 01:15:11	R1710078-015	Mo (202.032 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	17.4406
11/2/2017 01:15:11	R1710078-015	Na (588.995 nm)	117.3603 o (ppm)	0.60	117.3603 (ppm)	5379308.8040
11/2/2017 01:15:11	R1710078-015	Ni (230.299 nm)	-0.0027 u (ppm)	49.52	-0.0027 (ppm)	-44.7596
11/2/2017 01:15:11	R1710078-015	Pb (220.353 nm)	-0.0014 u (ppm)	29.17	-0.0014 (ppm)	2.4707
11/2/2017 01:15:11	R1710078-015	Sb (217.582 nm)	-0.0046 u (ppm)	10.90	-0.0046 (ppm)	-2.4638
11/2/2017 01:15:11	R1710078-015	Se (196.026 nm)	-0.0019 u (ppm)	73.26	-0.0019 (ppm)	3.8495
11/2/2017 01:15:11	R1710078-015	Sn (189.925 nm)	-0.0021 u (ppm)	17.69	-0.0021 (ppm)	-2.7908
11/2/2017 01:15:11	R1710078-015	Sr (216.596 nm)	4.4336 (ppm)	0.35	4.4336 (ppm)	66135.4805
11/2/2017 01:15:11	R1710078-015	Ti (336.122 nm)	0.0015 (ppm)	2.98	0.0015 (ppm)	-89.0499

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:15:11	R1710078-015	Tl (351.923 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	11.0181
11/2/2017 01:15:11	R1710078-015	V (292.401 nm)	0.0002 (ppm)	82.33	0.0002 (ppm)	116.5890
11/2/2017 01:15:11	R1710078-015	Y (360.074 nm)	0.94 (Ratio)	0.70	0.94 (Ratio)	876154.56
11/2/2017 01:15:11	R1710078-015	Y_R (360.074 nm)	0.94 (Ratio)	0.70	0.94 (Ratio)	875650.29
11/2/2017 01:15:11	R1710078-015	Zn (213.857 nm)	0.0022 (ppm)	5.29	0.0022 (ppm)	34.4787
11/2/2017 01:18:30	R1710078-016	Ag (328.068 nm)	0.0003 (ppm)	17.25	0.0003 (ppm)	-101.4382
11/2/2017 01:18:30	R1710078-016	Al (394.401 nm)	0.0250 (ppm)	4.87	0.0250 (ppm)	417.4619
11/2/2017 01:18:30	R1710078-016	As (188.980 nm)	0.0166 (ppm)	27.27	0.0166 (ppm)	12.4912
11/2/2017 01:18:30	R1710078-016	B (249.772 nm)	0.1049 (ppm)	0.15	0.1049 (ppm)	3095.5747
11/2/2017 01:18:30	R1710078-016	Ba (230.424 nm)	0.1872 (ppm)	0.11	0.1872 (ppm)	6561.2705
11/2/2017 01:18:30	R1710078-016	Be (313.107 nm)	0.0000 (ppm)	54.40	0.0000 (ppm)	-536.0933
11/2/2017 01:18:30	R1710078-016	Ca (227.547 nm)	109.5914 o (ppm)	0.91	109.5914 (ppm)	6442.2150
11/2/2017 01:18:30	R1710078-016	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	10.4024
11/2/2017 01:18:30	R1710078-016	Co (230.786 nm)	0.0008 (ppm)	99.72	0.0008 (ppm)	7.4212
11/2/2017 01:18:30	R1710078-016	Cr (267.716 nm)	-0.0003 u (ppm)	28.70	-0.0003 (ppm)	-17.1932
11/2/2017 01:18:30	R1710078-016	Cu (327.395 nm)	0.0002 (ppm)	54.98	0.0002 (ppm)	33.6469
11/2/2017 01:18:30	R1710078-016	Fe (234.350 nm)	1.3754 (ppm)	0.24	1.3754 (ppm)	16050.9986
11/2/2017 01:18:30	R1710078-016	K (766.491 nm)	3.1046 (ppm)	0.52	3.1046 (ppm)	9643.0987
11/2/2017 01:18:30	R1710078-016	Mg (279.078 nm)	82.5577 o (ppm)	0.28	82.5577 (ppm)	166576.4788
11/2/2017 01:18:30	R1710078-016	Mn (257.610 nm)	0.0230 (ppm)	6.88	0.0230 (ppm)	7459.3654
11/2/2017 01:18:30	R1710078-016	Mo (202.032 nm)	0.0021 (ppm)	7.57	0.0021 (ppm)	39.3279
11/2/2017 01:18:30	R1710078-016	Na (588.995 nm)	57.6418 o (ppm)	0.53	57.6418 (ppm)	2639020.1472
11/2/2017 01:18:30	R1710078-016	Ni (230.299 nm)	-0.0048 u (ppm)	6.29	-0.0048 (ppm)	-59.3624
11/2/2017 01:18:30	R1710078-016	Pb (220.353 nm)	-0.0022 u (ppm)	60.83	-0.0022 (ppm)	0.6237
11/2/2017 01:18:30	R1710078-016	Sb (217.582 nm)	-0.0029 u (ppm)	30.70	-0.0029 (ppm)	-0.0694
11/2/2017 01:18:30	R1710078-016	Se (196.026 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	5.0300
11/2/2017 01:18:30	R1710078-016	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-1.3078
11/2/2017 01:18:30	R1710078-016	Sr (216.596 nm)	5.3902 (ppm)	0.14	5.3902 (ppm)	80406.6097
11/2/2017 01:18:30	R1710078-016	Ti (336.122 nm)	0.0009 (ppm)	1.81	0.0009 (ppm)	-212.8185
11/2/2017 01:18:30	R1710078-016	Tl (351.923 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	11.1117
11/2/2017 01:18:30	R1710078-016	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	110.0787
11/2/2017 01:18:30	R1710078-016	Y (360.074 nm)	0.96 (Ratio)	0.68	0.96 (Ratio)	897084.93
11/2/2017 01:18:30	R1710078-016	Y_R (360.074 nm)	0.96 (Ratio)	0.68	0.96 (Ratio)	896431.72
11/2/2017 01:18:30	R1710078-016	Zn (213.857 nm)	0.0029 (ppm)	1.62	0.0029 (ppm)	52.7103
11/2/2017 01:21:49	Continuing Calibration Verification	Ag (328.068 nm)	0.4792 (ppm)	0.38	0.4792 (ppm)	35075.5804
11/2/2017 01:21:49	Continuing Calibration Verification	Al (394.401 nm)	9.4315 (ppm)	0.57	9.4315 (ppm)	126026.6340
11/2/2017 01:21:49	Continuing Calibration Verification	As (188.980 nm)	0.9360 (ppm)	0.89	0.9360 (ppm)	863.3837
11/2/2017 01:21:49	Continuing Calibration Verification	B (249.772 nm)	2.3567 (ppm)	0.31	2.3567 (ppm)	67626.2806
11/2/2017 01:21:49	Continuing Calibration Verification	Ba (230.424 nm)	9.9503 (ppm)	0.24	9.9503 (ppm)	348243.2638
11/2/2017 01:21:49	Continuing Calibration Verification	Be (313.107 nm)	0.2472 (ppm)	0.20	0.2472 (ppm)	374398.8198
11/2/2017 01:21:49	Continuing Calibration Verification	Ca (227.547 nm)	24.0356 (ppm)	0.51	24.0356 (ppm)	1417.7249
11/2/2017 01:21:49	Continuing Calibration Verification	Cd (214.439 nm)	0.4775 (ppm)	0.24	0.4775 (ppm)	10870.8864
11/2/2017 01:21:49	Continuing Calibration Verification	Co (230.786 nm)	2.5018 (ppm)	0.28	2.5018 (ppm)	25747.4746
11/2/2017 01:21:49	Continuing Calibration Verification	Cr (267.716 nm)	0.4845 (ppm)	0.27	0.4845 (ppm)	25266.5607
11/2/2017 01:21:49	Continuing Calibration Verification	Cu (327.395 nm)	1.1993 (ppm)	0.40	1.1993 (ppm)	75345.7806
11/2/2017 01:21:49	Continuing Calibration Verification	Fe (234.350 nm)	4.6748 (ppm)	0.23	4.6748 (ppm)	54380.5025
11/2/2017 01:21:49	Continuing Calibration Verification	K (766.491 nm)	24.7224 (ppm)	0.78	24.7224 (ppm)	76389.6289
11/2/2017 01:21:49	Continuing Calibration Verification	Mg (279.078 nm)	24.0667 (ppm)	0.29	24.0667 (ppm)	48554.3950
11/2/2017 01:21:49	Continuing Calibration Verification	Mn (257.610 nm)	0.7316 (ppm)	0.28	0.7316 (ppm)	236727.8926
11/2/2017 01:21:49	Continuing Calibration Verification	Mo (202.032 nm)	2.3288 (ppm)	0.19	2.3288 (ppm)	24934.9955
11/2/2017 01:21:49	Continuing Calibration Verification	Na (588.995 nm)	24.9459 (ppm)	0.93	24.9459 (ppm)	1138708.3363

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:21:49	Continuing Calibration Verification	Ni (230.299 nm)	1.9673 (ppm)	0.19	1.9673 (ppm)	13625.2036
11/2/2017 01:21:49	Continuing Calibration Verification	Pb (220.353 nm)	0.4816 (ppm)	0.46	0.4816 (ppm)	1080.7421
11/2/2017 01:21:49	Continuing Calibration Verification	Sb (217.582 nm)	4.7834 (ppm)	0.50	4.7834 (ppm)	6828.1299
11/2/2017 01:21:49	Continuing Calibration Verification	Se (196.026 nm)	0.4697 (ppm)	0.37	0.4697 (ppm)	415.8020
11/2/2017 01:21:49	Continuing Calibration Verification	Sn (189.925 nm)	4.8630 (ppm)	0.58	4.8630 (ppm)	6196.4423
11/2/2017 01:21:49	Continuing Calibration Verification	Sr (216.596 nm)	2.4141 (ppm)	0.34	2.4141 (ppm)	36011.1848
11/2/2017 01:21:49	Continuing Calibration Verification	Ti (336.122 nm)	2.4469 (ppm)	0.44	2.4469 (ppm)	536183.5751
11/2/2017 01:21:49	Continuing Calibration Verification	Tl (351.923 nm)	0.9721 (ppm)	0.67	0.9721 (ppm)	2774.4160
11/2/2017 01:21:49	Continuing Calibration Verification	V (292.401 nm)	2.4493 (ppm)	0.38	2.4493 (ppm)	88277.1746
11/2/2017 01:21:49	Continuing Calibration Verification	Y (360.074 nm)	0.98 (Ratio)	0.84	0.98 (Ratio)	922305.89
11/2/2017 01:21:49	Continuing Calibration Verification	Y_R (360.074 nm)	0.98 (Ratio)	0.83	0.98 (Ratio)	921490.22
11/2/2017 01:21:49	Continuing Calibration Verification	Zn (213.857 nm)	0.9654 (ppm)	0.24	0.9654 (ppm)	28017.9878
11/2/2017 01:25:08	Continuing Calibration Blank	Ag (328.068 nm)	0.0002 (ppm)	36.82	0.0002 (ppm)	-113.1081
11/2/2017 01:25:08	Continuing Calibration Blank	Al (394.401 nm)	0.0007 (ppm)	34.45	0.0007 (ppm)	91.9711
11/2/2017 01:25:08	Continuing Calibration Blank	As (188.980 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-2.4475
11/2/2017 01:25:08	Continuing Calibration Blank	B (249.772 nm)	0.0009 (ppm)	83.42	0.0009 (ppm)	117.8977
11/2/2017 01:25:08	Continuing Calibration Blank	Ba (230.424 nm)	0.0005 (ppm)	20.70	0.0005 (ppm)	25.1034
11/2/2017 01:25:08	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	2.72	0.0000 (ppm)	-466.7519
11/2/2017 01:25:08	Continuing Calibration Blank	Ca (227.547 nm)	-0.0159 u (ppm)	> 100.00	-0.0159 (ppm)	5.2388
11/2/2017 01:25:08	Continuing Calibration Blank	Cd (214.439 nm)	0.0002 (ppm)	54.67	0.0002 (ppm)	15.9060
11/2/2017 01:25:08	Continuing Calibration Blank	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.4089
11/2/2017 01:25:08	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 u (ppm)	93.94	0.0000 (ppm)	-2.9749
11/2/2017 01:25:08	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	21.3501
11/2/2017 01:25:08	Continuing Calibration Blank	Fe (234.350 nm)	0.0042 (ppm)	2.43	0.0042 (ppm)	121.7106
11/2/2017 01:25:08	Continuing Calibration Blank	K (766.491 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	57.1011
11/2/2017 01:25:08	Continuing Calibration Blank	Mg (279.078 nm)	0.0032 (ppm)	44.06	0.0032 (ppm)	-0.4766
11/2/2017 01:25:08	Continuing Calibration Blank	Mn (257.610 nm)	0.0014 (ppm)	30.39	0.0014 (ppm)	498.3997
11/2/2017 01:25:08	Continuing Calibration Blank	Mo (202.032 nm)	0.0024 (ppm)	10.84	0.0024 (ppm)	42.6042
11/2/2017 01:25:08	Continuing Calibration Blank	Na (588.995 nm)	0.0129 (ppm)	12.66	0.0129 (ppm)	-5387.9118
11/2/2017 01:25:08	Continuing Calibration Blank	Ni (230.299 nm)	0.0008 (ppm)	43.93	0.0008 (ppm)	-20.2592
11/2/2017 01:25:08	Continuing Calibration Blank	Pb (220.353 nm)	-0.0006 u (ppm)	> 100.00	-0.0006 (ppm)	4.3302
11/2/2017 01:25:08	Continuing Calibration Blank	Sb (217.582 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	5.6485
11/2/2017 01:25:08	Continuing Calibration Blank	Se (196.026 nm)	0.0025 (ppm)	61.21	0.0025 (ppm)	7.6679
11/2/2017 01:25:08	Continuing Calibration Blank	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.3319
11/2/2017 01:25:08	Continuing Calibration Blank	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.4960
11/2/2017 01:25:08	Continuing Calibration Blank	Ti (336.122 nm)	0.0009 (ppm)	4.19	0.0009 (ppm)	-228.0532
11/2/2017 01:25:08	Continuing Calibration Blank	Tl (351.923 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	14.6807
11/2/2017 01:25:08	Continuing Calibration Blank	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	108.5773
11/2/2017 01:25:08	Continuing Calibration Blank	Y (360.074 nm)	1.03 (Ratio)	0.70	1.03 (Ratio)	967108.29
11/2/2017 01:25:08	Continuing Calibration Blank	Y_R (360.074 nm)	1.03 (Ratio)	0.70	1.03 (Ratio)	966043.15
11/2/2017 01:25:08	Continuing Calibration Blank	Zn (213.857 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-30.3830
11/2/2017 01:28:27	R1710205-001 20X	Ag (328.068 nm)	0.0002 (ppm)	22.79	0.0002 (ppm)	-114.3515
11/2/2017 01:28:27	R1710205-001 20X	Al (394.401 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	85.4460
11/2/2017 01:28:27	R1710205-001 20X	As (188.980 nm)	0.0023 (ppm)	82.58	0.0023 (ppm)	-0.7790
11/2/2017 01:28:27	R1710205-001 20X	B (249.772 nm)	-0.0004 u (ppm)	40.49	-0.0004 (ppm)	80.1354
11/2/2017 01:28:27	R1710205-001 20X	Ba (230.424 nm)	-0.0002 u (ppm)	18.51	-0.0002 (ppm)	0.5561
11/2/2017 01:28:27	R1710205-001 20X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-497.6639
11/2/2017 01:28:27	R1710205-001 20X	Ca (227.547 nm)	-0.0092 u (ppm)	> 100.00	-0.0092 (ppm)	5.6293
11/2/2017 01:28:27	R1710205-001 20X	Cd (214.439 nm)	0.0001 (ppm)	95.85	0.0001 (ppm)	14.3353
11/2/2017 01:28:27	R1710205-001 20X	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.0750
11/2/2017 01:28:27	R1710205-001 20X	Cr (267.716 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-4.4966

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:28:27	R1710205-001 20X	Cu (327.395 nm)	0.0021 (ppm)	4.46	0.0021 (ppm)	153.0988
11/2/2017 01:28:27	R1710205-001 20X	Fe (234.350 nm)	1.0958 (ppm)	0.16	1.0958 (ppm)	12802.9543
11/2/2017 01:28:27	R1710205-001 20X	K (766.491 nm)	-0.0104 u (ppm)	52.35	-0.0104 (ppm)	25.3115
11/2/2017 01:28:27	R1710205-001 20X	Mg (279.078 nm)	0.0023 (ppm)	49.59	0.0023 (ppm)	-2.3613
11/2/2017 01:28:27	R1710205-001 20X	Mn (257.610 nm)	0.0020 (ppm)	15.08	0.0020 (ppm)	665.0313
11/2/2017 01:28:27	R1710205-001 20X	Mo (202.032 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	16.7877
11/2/2017 01:28:27	R1710205-001 20X	Na (588.995 nm)	0.9741 (ppm)	0.66	0.9741 (ppm)	38720.5580
11/2/2017 01:28:27	R1710205-001 20X	Ni (230.299 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	-23.6867
11/2/2017 01:28:27	R1710205-001 20X	Pb (220.353 nm)	-0.0013 u (ppm)	93.75	-0.0013 (ppm)	2.8244
11/2/2017 01:28:27	R1710205-001 20X	Sb (217.582 nm)	-0.0034 u (ppm)	67.43	-0.0034 (ppm)	-0.7774
11/2/2017 01:28:27	R1710205-001 20X	Se (196.026 nm)	0.0377 (ppm)	3.07	0.0377 (ppm)	38.4945
11/2/2017 01:28:27	R1710205-001 20X	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.3566
11/2/2017 01:28:27	R1710205-001 20X	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.5233
11/2/2017 01:28:27	R1710205-001 20X	Ti (336.122 nm)	0.0001 (ppm)	31.79	0.0001 (ppm)	-405.6612
11/2/2017 01:28:27	R1710205-001 20X	Tl (351.923 nm)	-0.0032 u (ppm)	26.31	-0.0032 (ppm)	5.4661
11/2/2017 01:28:27	R1710205-001 20X	V (292.401 nm)	-0.0002 u (ppm)	69.32	-0.0002 (ppm)	101.4742
11/2/2017 01:28:27	R1710205-001 20X	Y (360.074 nm)	1.04 (Ratio)	0.68	1.04 (Ratio)	977350.31
11/2/2017 01:28:27	R1710205-001 20X	Y_R (360.074 nm)	1.04 (Ratio)	0.69	1.04 (Ratio)	976142.78
11/2/2017 01:28:27	R1710205-001 20X	Zn (213.857 nm)	1.0106 (ppm)	0.41	1.0106 (ppm)	29332.7481
11/2/2017 01:31:46	R1710205-001 5X	Ag (328.068 nm)	0.0002 (ppm)	16.26	0.0002 (ppm)	-110.9617
11/2/2017 01:31:46	R1710205-001 5X	Al (394.401 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	81.1809
11/2/2017 01:31:46	R1710205-001 5X	As (188.980 nm)	0.0020 u (ppm)	> 100.00	0.0020 (ppm)	-1.0432
11/2/2017 01:31:46	R1710205-001 5X	B (249.772 nm)	0.0005 (ppm)	12.54	0.0005 (ppm)	106.0199
11/2/2017 01:31:46	R1710205-001 5X	Ba (230.424 nm)	-0.0001 u (ppm)	74.01	-0.0001 (ppm)	2.9009
11/2/2017 01:31:46	R1710205-001 5X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-500.5579
11/2/2017 01:31:46	R1710205-001 5X	Ca (227.547 nm)	-0.0738 u (ppm)	58.09	-0.0738 (ppm)	1.8344
11/2/2017 01:31:46	R1710205-001 5X	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.5381
11/2/2017 01:31:46	R1710205-001 5X	Co (230.786 nm)	-0.0002 u (ppm)	43.94	-0.0002 (ppm)	-3.7237
11/2/2017 01:31:46	R1710205-001 5X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	0.3284
11/2/2017 01:31:46	R1710205-001 5X	Cu (327.395 nm)	0.0083 (ppm)	1.74	0.0083 (ppm)	545.2955
11/2/2017 01:31:46	R1710205-001 5X	Fe (234.350 nm)	4.2402 (ppm)	1.38	4.2402 (ppm)	49331.1101
11/2/2017 01:31:46	R1710205-001 5X	K (766.491 nm)	-0.0068 u (ppm)	> 100.00	-0.0068 (ppm)	36.4318
11/2/2017 01:31:46	R1710205-001 5X	Mg (279.078 nm)	0.0028 (ppm)	21.42	0.0028 (ppm)	-1.3363
11/2/2017 01:31:46	R1710205-001 5X	Mn (257.610 nm)	0.0051 (ppm)	11.12	0.0051 (ppm)	1670.4122
11/2/2017 01:31:46	R1710205-001 5X	Mo (202.032 nm)	-0.0003 u (ppm)	15.07	-0.0003 (ppm)	14.0604
11/2/2017 01:31:46	R1710205-001 5X	Na (588.995 nm)	3.6664 (ppm)	0.77	3.6664 (ppm)	162260.5470
11/2/2017 01:31:46	R1710205-001 5X	Ni (230.299 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-22.8523
11/2/2017 01:31:46	R1710205-001 5X	Pb (220.353 nm)	-0.0004 u (ppm)	39.75	-0.0004 (ppm)	4.7536
11/2/2017 01:31:46	R1710205-001 5X	Sb (217.582 nm)	-0.0028 u (ppm)	35.31	-0.0028 (ppm)	0.1927
11/2/2017 01:31:46	R1710205-001 5X	Se (196.026 nm)	0.1474 (ppm)	0.60	0.1474 (ppm)	134.3074
11/2/2017 01:31:46	R1710205-001 5X	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.6214
11/2/2017 01:31:46	R1710205-001 5X	Sr (216.596 nm)	0.0004 (ppm)	31.29	0.0004 (ppm)	4.6416
11/2/2017 01:31:46	R1710205-001 5X	Ti (336.122 nm)	0.0001 (ppm)	22.23	0.0001 (ppm)	-405.0308
11/2/2017 01:31:46	R1710205-001 5X	Tl (351.923 nm)	-0.0032 u (ppm)	75.07	-0.0032 (ppm)	5.6728
11/2/2017 01:31:46	R1710205-001 5X	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	110.3513
11/2/2017 01:31:46	R1710205-001 5X	Y (360.074 nm)	1.04 (Ratio)	0.77	1.04 (Ratio)	970042.10
11/2/2017 01:31:46	R1710205-001 5X	Y_R (360.074 nm)	1.04 (Ratio)	0.77	1.04 (Ratio)	968959.76
11/2/2017 01:31:46	R1710205-001 5X	Zn (213.857 nm)	3.8602 o (ppm)	1.72	3.8602 (ppm)	112128.3549
11/2/2017 01:35:04	R1710205-001	Ag (328.068 nm)	0.0002 (ppm)	32.11	0.0002 (ppm)	-110.9153
11/2/2017 01:35:04	R1710205-001	Al (394.401 nm)	0.0018 (ppm)	8.99	0.0018 (ppm)	106.7792
11/2/2017 01:35:04	R1710205-001	As (188.980 nm)	0.0008 (ppm)	45.82	0.0008 (ppm)	-2.1694

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:35:04	R1710205-001	B (249.772 nm)	0.0074 (ppm)	2.78	0.0074 (ppm)	303.2679
11/2/2017 01:35:04	R1710205-001	Ba (230.424 nm)	-0.0002 u (ppm)	98.83	-0.0002 (ppm)	2.7434
11/2/2017 01:35:04	R1710205-001	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-516.3098
11/2/2017 01:35:04	R1710205-001	Ca (227.547 nm)	-0.4206 u (ppm)	3.80	-0.4206 (ppm)	-18.5329
11/2/2017 01:35:04	R1710205-001	Cd (214.439 nm)	0.0001 (ppm)	65.01	0.0001 (ppm)	15.3165
11/2/2017 01:35:04	R1710205-001	Co (230.786 nm)	-0.0005 u (ppm)	53.80	-0.0005 (ppm)	-6.2297
11/2/2017 01:35:04	R1710205-001	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.9379
11/2/2017 01:35:04	R1710205-001	Cu (327.395 nm)	0.0407 (ppm)	0.92	0.0407 (ppm)	2580.3324
11/2/2017 01:35:04	R1710205-001	Fe (234.350 nm)	20.2878 o (ppm)	0.30	20.2878 (ppm)	235758.2520
11/2/2017 01:35:04	R1710205-001	K (766.491 nm)	0.0033 u (ppm)	> 100.00	0.0033 (ppm)	67.6682
11/2/2017 01:35:04	R1710205-001	Mg (279.078 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-5.9373
11/2/2017 01:35:04	R1710205-001	Mn (257.610 nm)	0.0203 (ppm)	6.07	0.0203 (ppm)	6586.6566
11/2/2017 01:35:04	R1710205-001	Mo (202.032 nm)	-0.0008 u (ppm)	34.54	-0.0008 (ppm)	8.6875
11/2/2017 01:35:04	R1710205-001	Na (588.995 nm)	17.5738 (ppm)	0.63	17.5738 (ppm)	800425.7266
11/2/2017 01:35:04	R1710205-001	Ni (230.299 nm)	0.0013 (ppm)	12.13	0.0013 (ppm)	-17.2022
11/2/2017 01:35:04	R1710205-001	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	3.6971
11/2/2017 01:35:04	R1710205-001	Sb (217.582 nm)	-0.0045 u (ppm)	52.97	-0.0045 (ppm)	-2.3089
11/2/2017 01:35:04	R1710205-001	Se (196.026 nm)	0.7871 (ppm)	0.69	0.7871 (ppm)	693.0957
11/2/2017 01:35:04	R1710205-001	Sn (189.925 nm)	0.0015 (ppm)	54.17	0.0015 (ppm)	1.7551
11/2/2017 01:35:04	R1710205-001	Sr (216.596 nm)	0.0020 (ppm)	3.82	0.0020 (ppm)	29.1707
11/2/2017 01:35:04	R1710205-001	Ti (336.122 nm)	0.0004 (ppm)	5.28	0.0004 (ppm)	-337.8214
11/2/2017 01:35:04	R1710205-001	Tl (351.923 nm)	-0.0032 u (ppm)	45.89	-0.0032 (ppm)	5.5812
11/2/2017 01:35:04	R1710205-001	V (292.401 nm)	0.0004 (ppm)	43.74	0.0004 (ppm)	123.0741
11/2/2017 01:35:04	R1710205-001	Y (360.074 nm)	1.03 (Ratio)	0.70	1.03 (Ratio)	962622.02
11/2/2017 01:35:04	R1710205-001	Y_R (360.074 nm)	1.03 (Ratio)	0.70	1.03 (Ratio)	961710.01
11/2/2017 01:35:04	R1710205-001	Zn (213.857 nm)	17.6466 o (ppm)	0.22	17.6466 (ppm)	512689.8669
11/2/2017 01:38:22	R1710205-001D 5X	Ag (328.068 nm)	0.0001 (ppm)	29.37	0.0001 (ppm)	-117.2499
11/2/2017 01:38:22	R1710205-001D 5X	Al (394.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	81.5474
11/2/2017 01:38:22	R1710205-001D 5X	As (188.980 nm)	0.0035 (ppm)	38.43	0.0035 (ppm)	0.3349
11/2/2017 01:38:22	R1710205-001D 5X	B (249.772 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	93.2203
11/2/2017 01:38:22	R1710205-001D 5X	Ba (230.424 nm)	-0.0002 u (ppm)	55.25	-0.0002 (ppm)	0.8168
11/2/2017 01:38:22	R1710205-001D 5X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-504.7887
11/2/2017 01:38:22	R1710205-001D 5X	Ca (227.547 nm)	-0.1013 u (ppm)	19.10	-0.1013 (ppm)	0.2189
11/2/2017 01:38:22	R1710205-001D 5X	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	13.6703
11/2/2017 01:38:22	R1710205-001D 5X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.6063
11/2/2017 01:38:22	R1710205-001D 5X	Cr (267.716 nm)	0.0000 u (ppm)	39.58	0.0000 (ppm)	-2.5365
11/2/2017 01:38:22	R1710205-001D 5X	Cu (327.395 nm)	0.0081 (ppm)	0.74	0.0081 (ppm)	527.4337
11/2/2017 01:38:22	R1710205-001D 5X	Fe (234.350 nm)	4.1032 (ppm)	0.33	4.1032 (ppm)	47739.5827
11/2/2017 01:38:22	R1710205-001D 5X	K (766.491 nm)	-0.0093 u (ppm)	67.75	-0.0093 (ppm)	28.6438
11/2/2017 01:38:22	R1710205-001D 5X	Mg (279.078 nm)	0.0020 (ppm)	59.84	0.0020 (ppm)	-2.9761
11/2/2017 01:38:22	R1710205-001D 5X	Mn (257.610 nm)	0.0050 (ppm)	9.94	0.0050 (ppm)	1646.3469
11/2/2017 01:38:22	R1710205-001D 5X	Mo (202.032 nm)	-0.0005 u (ppm)	29.82	-0.0005 (ppm)	11.3630
11/2/2017 01:38:22	R1710205-001D 5X	Na (588.995 nm)	3.5582 (ppm)	0.75	3.5582 (ppm)	157297.2526
11/2/2017 01:38:22	R1710205-001D 5X	Ni (230.299 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	-23.4381
11/2/2017 01:38:22	R1710205-001D 5X	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.2789
11/2/2017 01:38:22	R1710205-001D 5X	Sb (217.582 nm)	-0.0027 u (ppm)	17.07	-0.0027 (ppm)	0.2342
11/2/2017 01:38:22	R1710205-001D 5X	Se (196.026 nm)	0.1464 (ppm)	0.77	0.1464 (ppm)	133.3755
11/2/2017 01:38:22	R1710205-001D 5X	Sn (189.925 nm)	-0.0003 u (ppm)	64.74	-0.0003 (ppm)	-0.5225
11/2/2017 01:38:22	R1710205-001D 5X	Sr (216.596 nm)	0.0004 (ppm)	46.32	0.0004 (ppm)	4.2306
11/2/2017 01:38:22	R1710205-001D 5X	Ti (336.122 nm)	0.0000 (ppm)	64.90	0.0000 (ppm)	-426.5322
11/2/2017 01:38:22	R1710205-001D 5X	Tl (351.923 nm)	-0.0030 u (ppm)	> 100.00	-0.0030 (ppm)	6.0325

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:38:22	R1710205-001D 5X	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	107.5723
11/2/2017 01:38:22	R1710205-001D 5X	Y (360.074 nm)	1.04 (Ratio)	0.82	1.04 (Ratio)	971777.86
11/2/2017 01:38:22	R1710205-001D 5X	Y_R (360.074 nm)	1.04 (Ratio)	0.82	1.04 (Ratio)	970802.94
11/2/2017 01:38:22	R1710205-001D 5X	Zn (213.857 nm)	3.7308 o (ppm)	0.32	3.7308 (ppm)	108366.6879
11/2/2017 01:41:41	R1710205-002 20X	Ag (328.068 nm)	0.0001 (ppm)	43.35	0.0001 (ppm)	-115.7540
11/2/2017 01:41:41	R1710205-002 20X	Al (394.401 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	76.5030
11/2/2017 01:41:41	R1710205-002 20X	As (188.980 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.8730
11/2/2017 01:41:41	R1710205-002 20X	B (249.772 nm)	-0.0013 u (ppm)	9.83	-0.0013 (ppm)	54.3952
11/2/2017 01:41:41	R1710205-002 20X	Ba (230.424 nm)	-0.0001 u (ppm)	50.18	-0.0001 (ppm)	3.7885
11/2/2017 01:41:41	R1710205-002 20X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-497.6333
11/2/2017 01:41:41	R1710205-002 20X	Ca (227.547 nm)	-0.0249 u (ppm)	> 100.00	-0.0249 (ppm)	4.7061
11/2/2017 01:41:41	R1710205-002 20X	Cd (214.439 nm)	0.0001 (ppm)	43.48	0.0001 (ppm)	14.5498
11/2/2017 01:41:41	R1710205-002 20X	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.6396
11/2/2017 01:41:41	R1710205-002 20X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.5913
11/2/2017 01:41:41	R1710205-002 20X	Cu (327.395 nm)	0.0021 (ppm)	3.46	0.0021 (ppm)	152.0808
11/2/2017 01:41:41	R1710205-002 20X	Fe (234.350 nm)	1.0522 (ppm)	0.44	1.0522 (ppm)	12295.8785
11/2/2017 01:41:41	R1710205-002 20X	K (766.491 nm)	-0.0196 u (ppm)	44.10	-0.0196 (ppm)	-3.1177
11/2/2017 01:41:41	R1710205-002 20X	Mg (279.078 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-5.1320
11/2/2017 01:41:41	R1710205-002 20X	Mn (257.610 nm)	0.0019 (ppm)	15.12	0.0019 (ppm)	641.7567
11/2/2017 01:41:41	R1710205-002 20X	Mo (202.032 nm)	-0.0006 u (ppm)	13.88	-0.0006 (ppm)	10.5763
11/2/2017 01:41:41	R1710205-002 20X	Na (588.995 nm)	0.9164 (ppm)	0.73	0.9164 (ppm)	36070.8217
11/2/2017 01:41:41	R1710205-002 20X	Ni (230.299 nm)	0.0004 (ppm)	87.12	0.0004 (ppm)	-23.5425
11/2/2017 01:41:41	R1710205-002 20X	Pb (220.353 nm)	-0.0011 u (ppm)	20.25	-0.0011 (ppm)	3.0929
11/2/2017 01:41:41	R1710205-002 20X	Sb (217.582 nm)	-0.0020 u (ppm)	40.93	-0.0020 (ppm)	1.2568
11/2/2017 01:41:41	R1710205-002 20X	Se (196.026 nm)	0.0376 (ppm)	5.45	0.0376 (ppm)	38.3870
11/2/2017 01:41:41	R1710205-002 20X	Sn (189.925 nm)	-0.0016 u (ppm)	14.73	-0.0016 (ppm)	-2.2149
11/2/2017 01:41:41	R1710205-002 20X	Sr (216.596 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	0.5365
11/2/2017 01:41:41	R1710205-002 20X	Ti (336.122 nm)	-0.0001 u (ppm)	33.83	-0.0001 (ppm)	-448.0742
11/2/2017 01:41:41	R1710205-002 20X	Tl (351.923 nm)	-0.0018 u (ppm)	79.08	-0.0018 (ppm)	9.5723
11/2/2017 01:41:41	R1710205-002 20X	V (292.401 nm)	-0.0002 u (ppm)	11.23	-0.0002 (ppm)	101.4113
11/2/2017 01:41:41	R1710205-002 20X	Y (360.074 nm)	1.04 (Ratio)	0.96	1.04 (Ratio)	978438.63
11/2/2017 01:41:41	R1710205-002 20X	Y_R (360.074 nm)	1.04 (Ratio)	0.95	1.04 (Ratio)	977369.86
11/2/2017 01:41:41	R1710205-002 20X	Zn (213.857 nm)	0.9655 (ppm)	0.97	0.9655 (ppm)	28022.1948
11/2/2017 01:45:00	R1710205-002 5X	Ag (328.068 nm)	0.0002 (ppm)	41.68	0.0002 (ppm)	-111.0777
11/2/2017 01:45:00	R1710205-002 5X	Al (394.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	81.5099
11/2/2017 01:45:00	R1710205-002 5X	As (188.980 nm)	0.0015 (ppm)	> 100.00	0.0015 (ppm)	-1.5545
11/2/2017 01:45:00	R1710205-002 5X	B (249.772 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	91.6127
11/2/2017 01:45:00	R1710205-002 5X	Ba (230.424 nm)	-0.0001 u (ppm)	35.11	-0.0001 (ppm)	3.4979
11/2/2017 01:45:00	R1710205-002 5X	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-499.8403
11/2/2017 01:45:00	R1710205-002 5X	Ca (227.547 nm)	-0.0603 u (ppm)	45.58	-0.0603 (ppm)	2.6277
11/2/2017 01:45:00	R1710205-002 5X	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	13.7346
11/2/2017 01:45:00	R1710205-002 5X	Co (230.786 nm)	-0.0002 u (ppm)	64.79	-0.0002 (ppm)	-3.1699
11/2/2017 01:45:00	R1710205-002 5X	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.3874
11/2/2017 01:45:00	R1710205-002 5X	Cu (327.395 nm)	0.0081 (ppm)	0.84	0.0081 (ppm)	528.7782
11/2/2017 01:45:00	R1710205-002 5X	Fe (234.350 nm)	4.0994 (ppm)	0.62	4.0994 (ppm)	47695.6571
11/2/2017 01:45:00	R1710205-002 5X	K (766.491 nm)	-0.0076 u (ppm)	94.03	-0.0076 (ppm)	34.0804
11/2/2017 01:45:00	R1710205-002 5X	Mg (279.078 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-4.5789
11/2/2017 01:45:00	R1710205-002 5X	Mn (257.610 nm)	0.0048 (ppm)	10.31	0.0048 (ppm)	1598.6259
11/2/2017 01:45:00	R1710205-002 5X	Mo (202.032 nm)	-0.0004 u (ppm)	60.08	-0.0004 (ppm)	12.4175
11/2/2017 01:45:00	R1710205-002 5X	Na (588.995 nm)	3.4872 (ppm)	0.21	3.4872 (ppm)	154036.3975
11/2/2017 01:45:00	R1710205-002 5X	Ni (230.299 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-22.3543

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:45:00	R1710205-002 5X	Pb (220.353 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	3.8013
11/2/2017 01:45:00	R1710205-002 5X	Sb (217.582 nm)	-0.0031 u (ppm)	27.61	-0.0031 (ppm)	-0.2664
11/2/2017 01:45:00	R1710205-002 5X	Se (196.026 nm)	0.1456 (ppm)	1.45	0.1456 (ppm)	132.7478
11/2/2017 01:45:00	R1710205-002 5X	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	-0.0514
11/2/2017 01:45:00	R1710205-002 5X	Sr (216.596 nm)	0.0003 (ppm)	58.66	0.0003 (ppm)	2.9586
11/2/2017 01:45:00	R1710205-002 5X	Ti (336.122 nm)	-0.0001 u (ppm)	44.90	-0.0001 (ppm)	-433.8593
11/2/2017 01:45:00	R1710205-002 5X	Tl (351.923 nm)	-0.0036 u (ppm)	49.46	-0.0036 (ppm)	4.2801
11/2/2017 01:45:00	R1710205-002 5X	V (292.401 nm)	-0.0002 u (ppm)	56.30	-0.0002 (ppm)	101.7378
11/2/2017 01:45:00	R1710205-002 5X	Y (360.074 nm)	1.04 (Ratio)	0.73	1.04 (Ratio)	976421.00
11/2/2017 01:45:00	R1710205-002 5X	Y_R (360.074 nm)	1.04 (Ratio)	0.74	1.04 (Ratio)	975378.13
11/2/2017 01:45:00	R1710205-002 5X	Zn (213.857 nm)	3.7248 o (ppm)	0.78	3.7248 (ppm)	108194.6169
11/2/2017 01:48:19	R1710205-002	Ag (328.068 nm)	0.0002 (ppm)	4.17	0.0002 (ppm)	-110.3793
11/2/2017 01:48:19	R1710205-002	Al (394.401 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	87.8765
11/2/2017 01:48:19	R1710205-002	As (188.980 nm)	0.0021 (ppm)	86.32	0.0021 (ppm)	-0.9692
11/2/2017 01:48:19	R1710205-002	B (249.772 nm)	0.0070 (ppm)	1.46	0.0070 (ppm)	290.5357
11/2/2017 01:48:19	R1710205-002	Ba (230.424 nm)	-0.0002 u (ppm)	44.43	-0.0002 (ppm)	1.7765
11/2/2017 01:48:19	R1710205-002	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-514.5361
11/2/2017 01:48:19	R1710205-002	Ca (227.547 nm)	-0.3958 u (ppm)	8.91	-0.3958 (ppm)	-17.0744
11/2/2017 01:48:19	R1710205-002	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	15.2493
11/2/2017 01:48:19	R1710205-002	Co (230.786 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-5.8547
11/2/2017 01:48:19	R1710205-002	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.6717
11/2/2017 01:48:19	R1710205-002	Cu (327.395 nm)	0.0404 (ppm)	1.26	0.0404 (ppm)	2561.7686
11/2/2017 01:48:19	R1710205-002	Fe (234.350 nm)	20.1792 o (ppm)	0.40	20.1792 (ppm)	234495.8838
11/2/2017 01:48:19	R1710205-002	K (766.491 nm)	0.0040 u (ppm)	> 100.00	0.0040 (ppm)	69.9136
11/2/2017 01:48:19	R1710205-002	Mg (279.078 nm)	0.0009 (ppm)	94.36	0.0009 (ppm)	-5.2456
11/2/2017 01:48:19	R1710205-002	Mn (257.610 nm)	0.0200 (ppm)	5.76	0.0200 (ppm)	6507.6362
11/2/2017 01:48:19	R1710205-002	Mo (202.032 nm)	-0.0008 u (ppm)	58.43	-0.0008 (ppm)	8.3547
11/2/2017 01:48:19	R1710205-002	Na (588.995 nm)	17.1542 (ppm)	0.88	17.1542 (ppm)	781170.3771
11/2/2017 01:48:19	R1710205-002	Ni (230.299 nm)	0.0012 (ppm)	9.14	0.0012 (ppm)	-17.8608
11/2/2017 01:48:19	R1710205-002	Pb (220.353 nm)	-0.0004 u (ppm)	54.65	-0.0004 (ppm)	4.7228
11/2/2017 01:48:19	R1710205-002	Sb (217.582 nm)	-0.0021 u (ppm)	62.98	-0.0021 (ppm)	1.1243
11/2/2017 01:48:19	R1710205-002	Se (196.026 nm)	0.7864 (ppm)	0.70	0.7864 (ppm)	692.4459
11/2/2017 01:48:19	R1710205-002	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.4668
11/2/2017 01:48:19	R1710205-002	Sr (216.596 nm)	0.0021 (ppm)	13.14	0.0021 (ppm)	30.8467
11/2/2017 01:48:19	R1710205-002	Ti (336.122 nm)	0.0004 (ppm)	25.39	0.0004 (ppm)	-339.8032
11/2/2017 01:48:19	R1710205-002	Tl (351.923 nm)	-0.0056 u (ppm)	39.88	-0.0056 (ppm)	-1.2125
11/2/2017 01:48:19	R1710205-002	V (292.401 nm)	0.0004 (ppm)	5.23	0.0004 (ppm)	123.6568
11/2/2017 01:48:19	R1710205-002	Y (360.074 nm)	1.03 (Ratio)	0.82	1.03 (Ratio)	962379.53
11/2/2017 01:48:19	R1710205-002	Y_R (360.074 nm)	1.03 (Ratio)	0.83	1.03 (Ratio)	961404.76
11/2/2017 01:48:19	R1710205-002	Zn (213.857 nm)	17.4643 o (ppm)	0.04	17.4643 (ppm)	507395.2340
11/2/2017 01:51:38	R1710205-002D 5X	Ag (328.068 nm)	0.0002 (ppm)	45.75	0.0002 (ppm)	-109.9248
11/2/2017 01:51:38	R1710205-002D 5X	Al (394.401 nm)	0.0003 (ppm)	41.88	0.0003 (ppm)	87.6387
11/2/2017 01:51:38	R1710205-002D 5X	As (188.980 nm)	0.0014 (ppm)	35.23	0.0014 (ppm)	-1.6155
11/2/2017 01:51:38	R1710205-002D 5X	B (249.772 nm)	-0.0002 u (ppm)	92.51	-0.0002 (ppm)	85.7914
11/2/2017 01:51:38	R1710205-002D 5X	Ba (230.424 nm)	-0.0001 u (ppm)	26.75	-0.0001 (ppm)	3.5424
11/2/2017 01:51:38	R1710205-002D 5X	Be (313.107 nm)	0.0000 (ppm)	57.40	0.0000 (ppm)	-495.0182
11/2/2017 01:51:38	R1710205-002D 5X	Ca (227.547 nm)	-0.0571 u (ppm)	30.92	-0.0571 (ppm)	2.8184
11/2/2017 01:51:38	R1710205-002D 5X	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	13.8249
11/2/2017 01:51:38	R1710205-002D 5X	Co (230.786 nm)	-0.0002 u (ppm)	64.16	-0.0002 (ppm)	-3.5994
11/2/2017 01:51:38	R1710205-002D 5X	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	1.4556
11/2/2017 01:51:38	R1710205-002D 5X	Cu (327.395 nm)	0.0080 (ppm)	0.89	0.0080 (ppm)	523.0572

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:51:38	R1710205-002D 5X	Fe (234.350 nm)	4.0466 (ppm)	0.32	4.0466 (ppm)	47082.3561
11/2/2017 01:51:38	R1710205-002D 5X	K (766.491 nm)	-0.0147 u (ppm)	30.64	-0.0147 (ppm)	12.0464
11/2/2017 01:51:38	R1710205-002D 5X	Mg (279.078 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	-6.0452
11/2/2017 01:51:38	R1710205-002D 5X	Mn (257.610 nm)	0.0049 (ppm)	9.63	0.0049 (ppm)	1622.9314
11/2/2017 01:51:38	R1710205-002D 5X	Mo (202.032 nm)	-0.0007 u (ppm)	24.32	-0.0007 (ppm)	9.4286
11/2/2017 01:51:38	R1710205-002D 5X	Na (588.995 nm)	3.4441 (ppm)	0.73	3.4441 (ppm)	152061.3103
11/2/2017 01:51:38	R1710205-002D 5X	Ni (230.299 nm)	0.0003 (ppm)	78.84	0.0003 (ppm)	-24.2406
11/2/2017 01:51:38	R1710205-002D 5X	Pb (220.353 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	3.5251
11/2/2017 01:51:38	R1710205-002D 5X	Sb (217.582 nm)	-0.0027 u (ppm)	38.65	-0.0027 (ppm)	0.3124
11/2/2017 01:51:38	R1710205-002D 5X	Se (196.026 nm)	0.1437 (ppm)	2.44	0.1437 (ppm)	131.0777
11/2/2017 01:51:38	R1710205-002D 5X	Sn (189.925 nm)	0.0027 (ppm)	16.20	0.0027 (ppm)	3.2415
11/2/2017 01:51:38	R1710205-002D 5X	Sr (216.596 nm)	0.0005 (ppm)	43.87	0.0005 (ppm)	5.6765
11/2/2017 01:51:38	R1710205-002D 5X	Ti (336.122 nm)	-0.0001 u (ppm)	12.27	-0.0001 (ppm)	-439.3534
11/2/2017 01:51:38	R1710205-002D 5X	Tl (351.923 nm)	-0.0029 u (ppm)	78.44	-0.0029 (ppm)	6.5297
11/2/2017 01:51:38	R1710205-002D 5X	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	108.1566
11/2/2017 01:51:38	R1710205-002D 5X	Y (360.074 nm)	1.04 (Ratio)	0.70	1.04 (Ratio)	974988.56
11/2/2017 01:51:38	R1710205-002D 5X	Y_R (360.074 nm)	1.04 (Ratio)	0.70	1.04 (Ratio)	974005.35
11/2/2017 01:51:38	R1710205-002D 5X	Zn (213.857 nm)	3.6695 o (ppm)	1.41	3.6695 (ppm)	106587.1407
11/2/2017 01:54:57	Continuing Calibration Verification	Ag (328.068 nm)	0.4799 (ppm)	0.53	0.4799 (ppm)	35130.5635
11/2/2017 01:54:57	Continuing Calibration Verification	Al (394.401 nm)	9.4165 (ppm)	0.56	9.4165 (ppm)	125826.2370
11/2/2017 01:54:57	Continuing Calibration Verification	As (188.980 nm)	0.9396 (ppm)	0.67	0.9396 (ppm)	866.7529
11/2/2017 01:54:57	Continuing Calibration Verification	B (249.772 nm)	2.3593 (ppm)	0.39	2.3593 (ppm)	67700.2171
11/2/2017 01:54:57	Continuing Calibration Verification	Ba (230.424 nm)	9.9627 (ppm)	0.30	9.9627 (ppm)	348679.4528
11/2/2017 01:54:57	Continuing Calibration Verification	Be (313.107 nm)	0.2481 (ppm)	0.42	0.2481 (ppm)	375861.2310
11/2/2017 01:54:57	Continuing Calibration Verification	Ca (227.547 nm)	23.8744 (ppm)	1.04	23.8744 (ppm)	1408.2597
11/2/2017 01:54:57	Continuing Calibration Verification	Cd (214.439 nm)	0.4804 (ppm)	0.16	0.4804 (ppm)	10938.6638
11/2/2017 01:54:57	Continuing Calibration Verification	Co (230.786 nm)	2.5097 (ppm)	0.36	2.5097 (ppm)	25828.2948
11/2/2017 01:54:57	Continuing Calibration Verification	Cr (267.716 nm)	0.4866 (ppm)	0.33	0.4866 (ppm)	25379.9926
11/2/2017 01:54:57	Continuing Calibration Verification	Cu (327.395 nm)	1.1935 (ppm)	0.50	1.1935 (ppm)	74983.4366
11/2/2017 01:54:57	Continuing Calibration Verification	Fe (234.350 nm)	4.6980 (ppm)	0.32	4.6980 (ppm)	54649.4957
11/2/2017 01:54:57	Continuing Calibration Verification	K (766.491 nm)	24.5204 (ppm)	0.80	24.5204 (ppm)	75765.7931
11/2/2017 01:54:57	Continuing Calibration Verification	Mg (279.078 nm)	24.1362 (ppm)	0.45	24.1362 (ppm)	48694.6640
11/2/2017 01:54:57	Continuing Calibration Verification	Mn (257.610 nm)	0.7332 (ppm)	0.22	0.7332 (ppm)	237255.4104
11/2/2017 01:54:57	Continuing Calibration Verification	Mo (202.032 nm)	2.3369 (ppm)	0.28	2.3369 (ppm)	25021.5324
11/2/2017 01:54:57	Continuing Calibration Verification	Na (588.995 nm)	24.7818 (ppm)	1.12	24.7818 (ppm)	1131180.7924
11/2/2017 01:54:57	Continuing Calibration Verification	Ni (230.299 nm)	1.9748 (ppm)	0.40	1.9748 (ppm)	13677.1018
11/2/2017 01:54:57	Continuing Calibration Verification	Pb (220.353 nm)	0.4827 (ppm)	0.90	0.4827 (ppm)	1083.0732
11/2/2017 01:54:57	Continuing Calibration Verification	Sb (217.582 nm)	4.7740 (ppm)	0.68	4.7740 (ppm)	6814.7291
11/2/2017 01:54:57	Continuing Calibration Verification	Se (196.026 nm)	0.4728 (ppm)	1.12	0.4728 (ppm)	418.5459
11/2/2017 01:54:57	Continuing Calibration Verification	Sn (189.925 nm)	4.8981 (ppm)	0.50	4.8981 (ppm)	6241.2200
11/2/2017 01:54:57	Continuing Calibration Verification	Sr (216.596 nm)	2.4222 (ppm)	0.14	2.4222 (ppm)	36131.6022
11/2/2017 01:54:57	Continuing Calibration Verification	Ti (336.122 nm)	2.4370 (ppm)	0.45	2.4370 (ppm)	534013.2162
11/2/2017 01:54:57	Continuing Calibration Verification	Tl (351.923 nm)	0.9722 (ppm)	0.27	0.9722 (ppm)	2774.7953
11/2/2017 01:54:57	Continuing Calibration Verification	V (292.401 nm)	2.4552 (ppm)	0.34	2.4552 (ppm)	88488.3347
11/2/2017 01:54:57	Continuing Calibration Verification	Y (360.074 nm)	0.99 (Ratio)	0.93	0.99 (Ratio)	923562.95
11/2/2017 01:54:57	Continuing Calibration Verification	Y_R (360.074 nm)	0.99 (Ratio)	0.93	0.99 (Ratio)	922802.32
11/2/2017 01:54:57	Continuing Calibration Verification	Zn (213.857 nm)	0.9690 (ppm)	0.35	0.9690 (ppm)	28122.8719
11/2/2017 01:58:16	Continuing Calibration Blank	Ag (328.068 nm)	0.0002 (ppm)	29.71	0.0002 (ppm)	-114.2562
11/2/2017 01:58:16	Continuing Calibration Blank	Al (394.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	83.4176
11/2/2017 01:58:16	Continuing Calibration Blank	As (188.980 nm)	0.0008 u (ppm)	> 100.00	0.0008 (ppm)	-2.1535
11/2/2017 01:58:16	Continuing Calibration Blank	B (249.772 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	109.1519

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 01:58:16	Continuing Calibration Blank	Ba (230.424 nm)	0.0006 (ppm)	15.93	0.0006 (ppm)	28.8967
11/2/2017 01:58:16	Continuing Calibration Blank	Be (313.107 nm)	0.0000 (ppm)	14.03	0.0000 (ppm)	-470.1342
11/2/2017 01:58:16	Continuing Calibration Blank	Ca (227.547 nm)	-0.0426 u (ppm)	> 100.00	-0.0426 (ppm)	3.6697
11/2/2017 01:58:16	Continuing Calibration Blank	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	12.4645
11/2/2017 01:58:16	Continuing Calibration Blank	Co (230.786 nm)	0.0002 (ppm)	45.95	0.0002 (ppm)	1.0273
11/2/2017 01:58:16	Continuing Calibration Blank	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	1.8395
11/2/2017 01:58:16	Continuing Calibration Blank	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	24.2909
11/2/2017 01:58:16	Continuing Calibration Blank	Fe (234.350 nm)	0.0044 (ppm)	5.41	0.0044 (ppm)	123.5829
11/2/2017 01:58:16	Continuing Calibration Blank	K (766.491 nm)	0.0098 (ppm)	56.54	0.0098 (ppm)	87.7409
11/2/2017 01:58:16	Continuing Calibration Blank	Mg (279.078 nm)	0.0034 (ppm)	20.26	0.0034 (ppm)	-0.2380
11/2/2017 01:58:16	Continuing Calibration Blank	Mn (257.610 nm)	0.0012 (ppm)	29.07	0.0012 (ppm)	424.5767
11/2/2017 01:58:16	Continuing Calibration Blank	Mo (202.032 nm)	0.0023 (ppm)	8.39	0.0023 (ppm)	41.7365
11/2/2017 01:58:16	Continuing Calibration Blank	Na (588.995 nm)	0.0110 (ppm)	11.78	0.0110 (ppm)	-5473.5165
11/2/2017 01:58:16	Continuing Calibration Blank	Ni (230.299 nm)	0.0008 (ppm)	27.12	0.0008 (ppm)	-20.3128
11/2/2017 01:58:16	Continuing Calibration Blank	Pb (220.353 nm)	-0.0002 u (ppm)	43.47	-0.0002 (ppm)	5.0921
11/2/2017 01:58:16	Continuing Calibration Blank	Sb (217.582 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	3.9173
11/2/2017 01:58:16	Continuing Calibration Blank	Se (196.026 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	4.1536
11/2/2017 01:58:16	Continuing Calibration Blank	Sn (189.925 nm)	0.0008 (ppm)	66.92	0.0008 (ppm)	0.8422
11/2/2017 01:58:16	Continuing Calibration Blank	Sr (216.596 nm)	0.0002 (ppm)	30.31	0.0002 (ppm)	1.5009
11/2/2017 01:58:16	Continuing Calibration Blank	Ti (336.122 nm)	0.0009 (ppm)	13.52	0.0009 (ppm)	-214.4809
11/2/2017 01:58:16	Continuing Calibration Blank	Tl (351.923 nm)	-0.0020 u (ppm)	66.46	-0.0020 (ppm)	9.0178
11/2/2017 01:58:16	Continuing Calibration Blank	V (292.401 nm)	-0.0001 u (ppm)	98.11	-0.0001 (ppm)	108.0312
11/2/2017 01:58:16	Continuing Calibration Blank	Y (360.074 nm)	1.04 (Ratio)	0.74	1.04 (Ratio)	972250.16
11/2/2017 01:58:16	Continuing Calibration Blank	Y_R (360.074 nm)	1.04 (Ratio)	0.74	1.04 (Ratio)	971179.09
11/2/2017 01:58:16	Continuing Calibration Blank	Zn (213.857 nm)	0.0001 (ppm)	98.53	0.0001 (ppm)	-26.7943
11/2/2017 02:01:34	Contract Required Detection Limit	Ag (328.068 nm)	0.0095 (ppm)	1.46	0.0095 (ppm)	575.6232
11/2/2017 02:01:34	Contract Required Detection Limit	Al (394.401 nm)	0.1711 (ppm)	0.93	0.1711 (ppm)	2368.0760
11/2/2017 02:01:34	Contract Required Detection Limit	As (188.980 nm)	0.0185 (ppm)	13.09	0.0185 (ppm)	14.2035
11/2/2017 02:01:34	Contract Required Detection Limit	B (249.772 nm)	0.1822 (ppm)	0.15	0.1822 (ppm)	5312.3014
11/2/2017 02:01:34	Contract Required Detection Limit	Ba (230.424 nm)	0.2038 (ppm)	0.31	0.2038 (ppm)	7140.5233
11/2/2017 02:01:34	Contract Required Detection Limit	Be (313.107 nm)	0.0047 (ppm)	0.53	0.0047 (ppm)	6658.3684
11/2/2017 02:01:34	Contract Required Detection Limit	Ca (227.547 nm)	0.9355 (ppm)	3.07	0.9355 (ppm)	61.1108
11/2/2017 02:01:34	Contract Required Detection Limit	Cd (214.439 nm)	0.0098 (ppm)	0.89	0.0098 (ppm)	234.9707
11/2/2017 02:01:34	Contract Required Detection Limit	Co (230.786 nm)	0.0490 (ppm)	1.36	0.0490 (ppm)	502.7005
11/2/2017 02:01:34	Contract Required Detection Limit	Cr (267.716 nm)	0.0096 (ppm)	0.38	0.0096 (ppm)	502.7576
11/2/2017 02:01:34	Contract Required Detection Limit	Cu (327.395 nm)	0.0240 (ppm)	0.32	0.0240 (ppm)	1531.4540
11/2/2017 02:01:34	Contract Required Detection Limit	Fe (234.350 nm)	0.0929 (ppm)	0.36	0.0929 (ppm)	1152.4554
11/2/2017 02:01:34	Contract Required Detection Limit	K (766.491 nm)	0.9130 (ppm)	1.47	0.9130 (ppm)	2876.5697
11/2/2017 02:01:34	Contract Required Detection Limit	Mg (279.078 nm)	0.9563 (ppm)	0.17	0.9563 (ppm)	1922.6444
11/2/2017 02:01:34	Contract Required Detection Limit	Mn (257.610 nm)	0.0180 (ppm)	6.43	0.0180 (ppm)	5844.4987
11/2/2017 02:01:34	Contract Required Detection Limit	Mo (202.032 nm)	0.0238 (ppm)	2.79	0.0238 (ppm)	271.1952
11/2/2017 02:01:34	Contract Required Detection Limit	Na (588.995 nm)	1.0161 (ppm)	0.55	1.0161 (ppm)	40648.6361
11/2/2017 02:01:34	Contract Required Detection Limit	Ni (230.299 nm)	0.0401 (ppm)	2.20	0.0401 (ppm)	252.1578
11/2/2017 02:01:34	Contract Required Detection Limit	Pb (220.353 nm)	0.0092 (ppm)	6.78	0.0092 (ppm)	26.1975
11/2/2017 02:01:34	Contract Required Detection Limit	Sb (217.582 nm)	0.0537 (ppm)	0.57	0.0537 (ppm)	80.7576
11/2/2017 02:01:34	Contract Required Detection Limit	Se (196.026 nm)	0.0098 (ppm)	13.46	0.0098 (ppm)	14.0809
11/2/2017 02:01:34	Contract Required Detection Limit	Sn (189.925 nm)	0.4845 (ppm)	0.35	0.4845 (ppm)	617.1754
11/2/2017 02:01:34	Contract Required Detection Limit	Sr (216.596 nm)	0.0967 (ppm)	0.29	0.0967 (ppm)	1441.0297
11/2/2017 02:01:34	Contract Required Detection Limit	Ti (336.122 nm)	0.0494 (ppm)	0.21	0.0494 (ppm)	10409.9050
11/2/2017 02:01:34	Contract Required Detection Limit	Tl (351.923 nm)	0.0167 (ppm)	14.80	0.0167 (ppm)	62.1664
11/2/2017 02:01:34	Contract Required Detection Limit	V (292.401 nm)	0.0475 (ppm)	0.73	0.0475 (ppm)	1819.7721

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:01:34	Contract Required Detection Limit	Y (360.074 nm)	1.04 (Ratio)	0.69	1.04 (Ratio)	973917.89
11/2/2017 02:01:34	Contract Required Detection Limit	Y_R (360.074 nm)	1.04 (Ratio)	0.69	1.04 (Ratio)	972796.07
11/2/2017 02:01:34	Contract Required Detection Limit	Zn (213.857 nm)	0.0187 (ppm)	1.00	0.0187 (ppm)	511.8546
11/2/2017 02:04:54	Interference Check Solution A	Ag (328.068 nm)	0.0003 (ppm)	28.59	0.0003 (ppm)	-104.7297
11/2/2017 02:04:54	Interference Check Solution A	Al (394.401 nm)	259.2582 o (ppm)	0.44	259.2582 (ppm)	3462077.0143
11/2/2017 02:04:54	Interference Check Solution A	As (188.980 nm)	0.0020 (ppm)	58.43	0.0020 (ppm)	-1.0614
11/2/2017 02:04:54	Interference Check Solution A	B (249.772 nm)	0.0356 (ppm)	0.49	0.0356 (ppm)	1111.8029
11/2/2017 02:04:54	Interference Check Solution A	Ba (230.424 nm)	0.0004 (ppm)	19.06	0.0004 (ppm)	20.8607
11/2/2017 02:04:54	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	18.52	-0.0001 (ppm)	-584.6877
11/2/2017 02:04:54	Interference Check Solution A	Ca (227.547 nm)	263.6841 o (ppm)	0.40	263.6841 (ppm)	15491.7187
11/2/2017 02:04:54	Interference Check Solution A	Cd (214.439 nm)	-0.0014 Ku (ppm)	13.38	-0.0014 (ppm)	-19.1499 K
11/2/2017 02:04:54	Interference Check Solution A	Co (230.786 nm)	-0.0024 u (ppm)	7.99	-0.0024 (ppm)	-26.5148
11/2/2017 02:04:54	Interference Check Solution A	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.7714
11/2/2017 02:04:54	Interference Check Solution A	Cu (327.395 nm)	0.0006 (ppm)	32.95	0.0006 (ppm)	57.2744
11/2/2017 02:04:54	Interference Check Solution A	Fe (234.350 nm)	85.2963 o (ppm)	0.36	85.2963 (ppm)	990967.9543
11/2/2017 02:04:54	Interference Check Solution A	K (766.491 nm)	0.0071 u (ppm)	> 100.00	0.0071 (ppm)	79.3363
11/2/2017 02:04:54	Interference Check Solution A	Mg (279.078 nm)	253.6335 o (ppm)	0.25	253.6335 (ppm)	511770.1920
11/2/2017 02:04:54	Interference Check Solution A	Mn (257.610 nm)	0.0048 (ppm)	24.86	0.0048 (ppm)	1597.0444
11/2/2017 02:04:54	Interference Check Solution A	Mo (202.032 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	15.3798
11/2/2017 02:04:54	Interference Check Solution A	Na (588.995 nm)	0.0125 (ppm)	1.28	0.0125 (ppm)	-5402.8746
11/2/2017 02:04:54	Interference Check Solution A	Ni (230.299 nm)	-0.0018 u (ppm)	52.63	-0.0018 (ppm)	-38.4187
11/2/2017 02:04:54	Interference Check Solution A	Pb (220.353 nm)	-0.0026 u (ppm)	66.07	-0.0026 (ppm)	-0.1989
11/2/2017 02:04:54	Interference Check Solution A	Sb (217.582 nm)	-0.0083 u (ppm)	35.47	-0.0083 (ppm)	-7.6883
11/2/2017 02:04:54	Interference Check Solution A	Se (196.026 nm)	-0.0022 u (ppm)	> 100.00	-0.0022 (ppm)	3.6315
11/2/2017 02:04:54	Interference Check Solution A	Sn (189.925 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	-1.7819
11/2/2017 02:04:54	Interference Check Solution A	Sr (216.596 nm)	0.0179 (ppm)	4.25	0.0179 (ppm)	265.6382
11/2/2017 02:04:54	Interference Check Solution A	Ti (336.122 nm)	0.0014 (ppm)	3.16	0.0014 (ppm)	-112.1035
11/2/2017 02:04:54	Interference Check Solution A	Tl (351.923 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	15.4091
11/2/2017 02:04:54	Interference Check Solution A	V (292.401 nm)	0.0031 K (ppm)	4.02	0.0031 (ppm)	222.2478 K
11/2/2017 02:04:54	Interference Check Solution A	Y (360.074 nm)	0.91 (Ratio)	0.63	0.91 (Ratio)	849735.37
11/2/2017 02:04:54	Interference Check Solution A	Y_R (360.074 nm)	0.91 (Ratio)	0.63	0.91 (Ratio)	849059.01
11/2/2017 02:04:54	Interference Check Solution A	Zn (213.857 nm)	0.0111 K (ppm)	1.39	0.0111 (ppm)	290.9275 K
11/2/2017 02:08:13	Interference Check Solution AB	Ag (328.068 nm)	0.2102 (ppm)	0.25	0.2102 (ppm)	15317.5948
11/2/2017 02:08:13	Interference Check Solution AB	Al (394.401 nm)	259.6192 o (ppm)	0.36	259.6192 (ppm)	3466897.3141
11/2/2017 02:08:13	Interference Check Solution AB	As (188.980 nm)	0.0987 (ppm)	7.10	0.0987 (ppm)	88.4364
11/2/2017 02:08:13	Interference Check Solution AB	B (249.772 nm)	0.0359 (ppm)	1.52	0.0359 (ppm)	1120.7057
11/2/2017 02:08:13	Interference Check Solution AB	Ba (230.424 nm)	0.5086 (ppm)	0.17	0.5086 (ppm)	17808.6410
11/2/2017 02:08:13	Interference Check Solution AB	Be (313.107 nm)	0.4927 (ppm)	0.37	0.4927 (ppm)	746819.6746
11/2/2017 02:08:13	Interference Check Solution AB	Ca (227.547 nm)	262.2349 o (ppm)	0.51	262.2349 (ppm)	15406.6070
11/2/2017 02:08:13	Interference Check Solution AB	Cd (214.439 nm)	0.9211 (ppm)	0.25	0.9211 (ppm)	20960.6333
11/2/2017 02:08:13	Interference Check Solution AB	Co (230.786 nm)	0.4770 (ppm)	0.33	0.4770 (ppm)	4907.8096
11/2/2017 02:08:13	Interference Check Solution AB	Cr (267.716 nm)	0.4739 (ppm)	0.27	0.4739 (ppm)	24713.1170
11/2/2017 02:08:13	Interference Check Solution AB	Cu (327.395 nm)	0.5241 (ppm)	0.25	0.5241 (ppm)	32942.6837
11/2/2017 02:08:13	Interference Check Solution AB	Fe (234.350 nm)	85.4612 o (ppm)	0.23	85.4612 (ppm)	992883.2905
11/2/2017 02:08:13	Interference Check Solution AB	K (766.491 nm)	-0.0077 u (ppm)	21.82	-0.0077 (ppm)	33.7689
11/2/2017 02:08:13	Interference Check Solution AB	Mg (279.078 nm)	254.2170 o (ppm)	0.21	254.2170 (ppm)	512947.4874
11/2/2017 02:08:13	Interference Check Solution AB	Mn (257.610 nm)	0.4864 (ppm)	0.47	0.4864 (ppm)	157382.9789
11/2/2017 02:08:13	Interference Check Solution AB	Mo (202.032 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	19.9184
11/2/2017 02:08:13	Interference Check Solution AB	Na (588.995 nm)	0.0197 (ppm)	7.86	0.0197 (ppm)	-5072.5510
11/2/2017 02:08:13	Interference Check Solution AB	Ni (230.299 nm)	0.9202 (ppm)	0.35	0.9202 (ppm)	6359.0829
11/2/2017 02:08:13	Interference Check Solution AB	Pb (220.353 nm)	0.0475 (ppm)	2.01	0.0475 (ppm)	111.6318

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:08:13	Interference Check Solution AB	Sb (217.582 nm)	0.5915 (ppm)	1.00	0.5915 (ppm)	847.9425
11/2/2017 02:08:13	Interference Check Solution AB	Se (196.026 nm)	0.0495 (ppm)	10.98	0.0495 (ppm)	48.7545
11/2/2017 02:08:13	Interference Check Solution AB	Sn (189.925 nm)	0.0015 u (ppm)	> 100.00	0.0015 (ppm)	1.7429
11/2/2017 02:08:13	Interference Check Solution AB	Sr (216.596 nm)	0.0185 (ppm)	1.36	0.0185 (ppm)	274.4810
11/2/2017 02:08:13	Interference Check Solution AB	Ti (336.122 nm)	0.0013 (ppm)	3.40	0.0013 (ppm)	-139.9773
11/2/2017 02:08:13	Interference Check Solution AB	Tl (351.923 nm)	0.1108 (ppm)	3.01	0.1108 (ppm)	329.0984
11/2/2017 02:08:13	Interference Check Solution AB	V (292.401 nm)	0.4926 (ppm)	0.20	0.4926 (ppm)	17840.3865
11/2/2017 02:08:13	Interference Check Solution AB	Y (360.074 nm)	0.91 (Ratio)	0.68	0.91 (Ratio)	849204.67
11/2/2017 02:08:13	Interference Check Solution AB	Y_R (360.074 nm)	0.91 (Ratio)	0.67	0.91 (Ratio)	848542.79
11/2/2017 02:08:13	Interference Check Solution AB	Zn (213.857 nm)	0.9899 (ppm)	0.24	0.9899 (ppm)	28731.5312
11/2/2017 02:11:32	Continuing Calibration Verification1	Ag (328.068 nm)	0.4826 (ppm)	0.22	0.4826 (ppm)	35326.4251
11/2/2017 02:11:32	Continuing Calibration Verification1	Al (394.401 nm)	9.4543 (ppm)	0.35	9.4543 (ppm)	126331.1026
11/2/2017 02:11:32	Continuing Calibration Verification1	As (188.980 nm)	0.9422 (ppm)	1.56	0.9422 (ppm)	869.1080
11/2/2017 02:11:32	Continuing Calibration Verification1	B (249.772 nm)	2.3719 (ppm)	0.15	2.3719 (ppm)	68062.2063
11/2/2017 02:11:32	Continuing Calibration Verification1	Ba (230.424 nm)	10.0347 (ppm)	0.01	10.0347 (ppm)	351197.5067
11/2/2017 02:11:32	Continuing Calibration Verification1	Be (313.107 nm)	0.2494 (ppm)	0.03	0.2494 (ppm)	377765.3471
11/2/2017 02:11:32	Continuing Calibration Verification1	Ca (227.547 nm)	23.9771 (ppm)	0.40	23.9771 (ppm)	1414.2860
11/2/2017 02:11:32	Continuing Calibration Verification1	Cd (214.439 nm)	0.4843 (ppm)	0.16	0.4843 (ppm)	11025.3096
11/2/2017 02:11:32	Continuing Calibration Verification1	Co (230.786 nm)	2.5240 (ppm)	0.17	2.5240 (ppm)	25975.9766
11/2/2017 02:11:32	Continuing Calibration Verification1	Cr (267.716 nm)	0.4894 (ppm)	0.07	0.4894 (ppm)	25523.1150
11/2/2017 02:11:32	Continuing Calibration Verification1	Cu (327.395 nm)	1.1993 (ppm)	0.44	1.1993 (ppm)	75350.9196
11/2/2017 02:11:32	Continuing Calibration Verification1	Fe (234.350 nm)	4.7372 (ppm)	0.11	4.7372 (ppm)	55104.9157
11/2/2017 02:11:32	Continuing Calibration Verification1	K (766.491 nm)	24.6184 (ppm)	0.48	24.6184 (ppm)	76068.5597
11/2/2017 02:11:32	Continuing Calibration Verification1	Mg (279.078 nm)	24.2977 (ppm)	0.16	24.2977 (ppm)	49020.4925
11/2/2017 02:11:32	Continuing Calibration Verification1	Mn (257.610 nm)	0.7374 (ppm)	0.11	0.7374 (ppm)	238610.1170
11/2/2017 02:11:32	Continuing Calibration Verification1	Mo (202.032 nm)	2.3539 (ppm)	0.17	2.3539 (ppm)	25203.6089
11/2/2017 02:11:32	Continuing Calibration Verification1	Na (588.995 nm)	24.8365 (ppm)	0.69	24.8365 (ppm)	1133687.4416
11/2/2017 02:11:32	Continuing Calibration Verification1	Ni (230.299 nm)	1.9845 (ppm)	0.10	1.9845 (ppm)	13744.8646
11/2/2017 02:11:32	Continuing Calibration Verification1	Pb (220.353 nm)	0.4856 (ppm)	0.18	0.4856 (ppm)	1089.5432
11/2/2017 02:11:32	Continuing Calibration Verification1	Sb (217.582 nm)	4.8023 (ppm)	0.21	4.8023 (ppm)	6855.0750
11/2/2017 02:11:32	Continuing Calibration Verification1	Se (196.026 nm)	0.4746 (ppm)	0.42	0.4746 (ppm)	420.1054
11/2/2017 02:11:32	Continuing Calibration Verification1	Sn (189.925 nm)	4.9236 (ppm)	0.19	4.9236 (ppm)	6273.6917
11/2/2017 02:11:32	Continuing Calibration Verification1	Sr (216.596 nm)	2.4328 (ppm)	0.09	2.4328 (ppm)	36289.3526
11/2/2017 02:11:32	Continuing Calibration Verification1	Ti (336.122 nm)	2.4478 (ppm)	0.53	2.4478 (ppm)	536378.2548
11/2/2017 02:11:32	Continuing Calibration Verification1	Tl (351.923 nm)	0.9754 (ppm)	0.54	0.9754 (ppm)	2783.7223
11/2/2017 02:11:32	Continuing Calibration Verification1	V (292.401 nm)	2.4672 (ppm)	0.09	2.4672 (ppm)	88921.8549
11/2/2017 02:11:32	Continuing Calibration Verification1	Y (360.074 nm)	0.99 (Ratio)	0.64	0.99 (Ratio)	923425.68
11/2/2017 02:11:32	Continuing Calibration Verification1	Y_R (360.074 nm)	0.99 (Ratio)	0.65	0.99 (Ratio)	922542.28
11/2/2017 02:11:32	Continuing Calibration Verification1	Zn (213.857 nm)	0.9747 (ppm)	0.14	0.9747 (ppm)	28289.5661
11/2/2017 02:14:50	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002 (ppm)	12.75	0.0002 (ppm)	-109.1379
11/2/2017 02:14:50	Continuing Calibration Blank1	Al (394.401 nm)	0.0003 u (ppm)	> 100.00	0.0003 (ppm)	87.5482
11/2/2017 02:14:50	Continuing Calibration Blank1	As (188.980 nm)	0.0026 (ppm)	> 100.00	0.0026 (ppm)	-0.5164
11/2/2017 02:14:50	Continuing Calibration Blank1	B (249.772 nm)	0.0007 (ppm)	96.77	0.0007 (ppm)	110.1137
11/2/2017 02:14:50	Continuing Calibration Blank1	Ba (230.424 nm)	0.0003 (ppm)	34.14	0.0003 (ppm)	18.3083
11/2/2017 02:14:50	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	16.61	0.0000 (ppm)	-472.2596
11/2/2017 02:14:50	Continuing Calibration Blank1	Ca (227.547 nm)	-0.0278 u (ppm)	68.60	-0.0278 (ppm)	4.5360
11/2/2017 02:14:50	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	41.16	0.0001 (ppm)	15.3893
11/2/2017 02:14:50	Continuing Calibration Blank1	Co (230.786 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	0.4858
11/2/2017 02:14:50	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-0.7763
11/2/2017 02:14:50	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	25.5705
11/2/2017 02:14:50	Continuing Calibration Blank1	Fe (234.350 nm)	0.0005 (ppm)	85.36	0.0005 (ppm)	78.4184

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:14:50	Continuing Calibration Blank1	K (766.491 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	55.9105
11/2/2017 02:14:50	Continuing Calibration Blank1	Mg (279.078 nm)	0.0027 (ppm)	10.19	0.0027 (ppm)	-1.5585
11/2/2017 02:14:50	Continuing Calibration Blank1	Mn (257.610 nm)	0.0011 (ppm)	30.26	0.0011 (ppm)	394.3589
11/2/2017 02:14:50	Continuing Calibration Blank1	Mo (202.032 nm)	0.0021 (ppm)	10.16	0.0021 (ppm)	38.9455
11/2/2017 02:14:50	Continuing Calibration Blank1	Na (588.995 nm)	0.0079 (ppm)	8.30	0.0079 (ppm)	-5617.8302
11/2/2017 02:14:50	Continuing Calibration Blank1	Ni (230.299 nm)	0.0007 (ppm)	90.23	0.0007 (ppm)	-21.3309
11/2/2017 02:14:50	Continuing Calibration Blank1	Pb (220.353 nm)	0.0008 (ppm)	87.22	0.0008 (ppm)	7.4007
11/2/2017 02:14:50	Continuing Calibration Blank1	Sb (217.582 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	3.8649
11/2/2017 02:14:50	Continuing Calibration Blank1	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	5.1587
11/2/2017 02:14:50	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	-0.6420
11/2/2017 02:14:50	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.7042
11/2/2017 02:14:50	Continuing Calibration Blank1	Ti (336.122 nm)	0.0008 (ppm)	7.42	0.0008 (ppm)	-243.6503
11/2/2017 02:14:50	Continuing Calibration Blank1	Tl (351.923 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	14.9131
11/2/2017 02:14:50	Continuing Calibration Blank1	V (292.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	107.4852
11/2/2017 02:14:50	Continuing Calibration Blank1	Y (360.074 nm)	1.04 (Ratio)	0.66	1.04 (Ratio)	972554.52
11/2/2017 02:14:50	Continuing Calibration Blank1	Y_R (360.074 nm)	1.04 (Ratio)	0.67	1.04 (Ratio)	971414.47
11/2/2017 02:14:50	Continuing Calibration Blank1	Zn (213.857 nm)	0.0002 (ppm)	28.64	0.0002 (ppm)	-23.5898
11/2/2017 02:18:09	PBW-301956	Ag (328.068 nm)	0.0002 (ppm)	21.35	0.0002 (ppm)	-108.0716
11/2/2017 02:18:09	PBW-301956	Al (394.401 nm)	0.0002 (ppm)	25.22	0.0002 (ppm)	86.3284
11/2/2017 02:18:09	PBW-301956	As (188.980 nm)	0.0026 (ppm)	47.82	0.0026 (ppm)	-0.5178
11/2/2017 02:18:09	PBW-301956	B (249.772 nm)	-0.0006 u (ppm)	10.91	-0.0006 (ppm)	74.7517
11/2/2017 02:18:09	PBW-301956	Ba (230.424 nm)	-0.0001 u (ppm)	50.76	-0.0001 (ppm)	5.0002
11/2/2017 02:18:09	PBW-301956	Be (313.107 nm)	0.0000 (ppm)	58.30	0.0000 (ppm)	-503.9039
11/2/2017 02:18:09	PBW-301956	Ca (227.547 nm)	-0.0424 u (ppm)	32.44	-0.0424 (ppm)	3.6813
11/2/2017 02:18:09	PBW-301956	Cd (214.439 nm)	-0.0001 u (ppm)	36.28	-0.0001 (ppm)	9.0993
11/2/2017 02:18:09	PBW-301956	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.8286
11/2/2017 02:18:09	PBW-301956	Cr (267.716 nm)	-0.0001 u (ppm)	39.93	-0.0001 (ppm)	-4.5856
11/2/2017 02:18:09	PBW-301956	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	23.5173
11/2/2017 02:18:09	PBW-301956	Fe (234.350 nm)	-0.0048 u (ppm)	7.69	-0.0048 (ppm)	17.3755
11/2/2017 02:18:09	PBW-301956	K (766.491 nm)	-0.0073 u (ppm)	72.27	-0.0073 (ppm)	34.8706
11/2/2017 02:18:09	PBW-301956	Mg (279.078 nm)	0.0026 (ppm)	11.47	0.0026 (ppm)	-1.8659
11/2/2017 02:18:09	PBW-301956	Mn (257.610 nm)	0.0035 (ppm)	38.47	0.0035 (ppm)	1166.0026
11/2/2017 02:18:09	PBW-301956	Mo (202.032 nm)	-0.0004 u (ppm)	78.90	-0.0004 (ppm)	12.4773
11/2/2017 02:18:09	PBW-301956	Na (588.995 nm)	0.0120 (ppm)	4.99	0.0120 (ppm)	-5426.2470
11/2/2017 02:18:09	PBW-301956	Ni (230.299 nm)	0.0011 (ppm)	43.09	0.0011 (ppm)	-18.3265
11/2/2017 02:18:09	PBW-301956	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.1194
11/2/2017 02:18:09	PBW-301956	Sb (217.582 nm)	-0.0019 u (ppm)	56.09	-0.0019 (ppm)	1.4859
11/2/2017 02:18:09	PBW-301956	Se (196.026 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	5.6722
11/2/2017 02:18:09	PBW-301956	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.0743
11/2/2017 02:18:09	PBW-301956	Sr (216.596 nm)	-0.0001 u (ppm)	68.60	-0.0001 (ppm)	-2.6107
11/2/2017 02:18:09	PBW-301956	Ti (336.122 nm)	0.0005 (ppm)	12.67	0.0005 (ppm)	-300.4497
11/2/2017 02:18:09	PBW-301956	Tl (351.923 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	12.7149
11/2/2017 02:18:09	PBW-301956	V (292.401 nm)	-0.0002 u (ppm)	92.24	-0.0002 (ppm)	102.4272
11/2/2017 02:18:09	PBW-301956	Y (360.074 nm)	1.05 (Ratio)	0.41	1.05 (Ratio)	982976.01
11/2/2017 02:18:09	PBW-301956	Y_R (360.074 nm)	1.05 (Ratio)	0.41	1.05 (Ratio)	981836.52
11/2/2017 02:18:09	PBW-301956	Zn (213.857 nm)	0.0012 (ppm)	7.13	0.0012 (ppm)	3.1728
11/2/2017 02:21:28	LCSW-301956	Ag (328.068 nm)	0.0485 (ppm)	0.47	0.0485 (ppm)	3438.6221
11/2/2017 02:21:28	LCSW-301956	Al (394.401 nm)	1.8171 (ppm)	0.55	1.8171 (ppm)	24347.8227
11/2/2017 02:21:28	LCSW-301956	As (188.980 nm)	0.0381 (ppm)	1.64	0.0381 (ppm)	32.3656
11/2/2017 02:21:28	LCSW-301956	B (249.772 nm)	0.9353 (ppm)	0.31	0.9353 (ppm)	26893.5945
11/2/2017 02:21:28	LCSW-301956	Ba (230.424 nm)	2.0013 (ppm)	0.53	2.0013 (ppm)	70048.4574

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:21:28	LCSW-301956	Be (313.107 nm)	0.0489 (ppm)	0.40	0.0489 (ppm)	73643.7682
11/2/2017 02:21:28	LCSW-301956	Ca (227.547 nm)	1.8424 (ppm)	1.91	1.8424 (ppm)	114.3669
11/2/2017 02:21:28	LCSW-301956	Cd (214.439 nm)	0.0492 (ppm)	0.20	0.0492 (ppm)	1131.9085
11/2/2017 02:21:28	LCSW-301956	Co (230.786 nm)	0.4953 (ppm)	0.39	0.4953 (ppm)	5096.1852
11/2/2017 02:21:28	LCSW-301956	Cr (267.716 nm)	0.1906 (ppm)	0.35	0.1906 (ppm)	9939.7579
11/2/2017 02:21:28	LCSW-301956	Cu (327.395 nm)	0.2413 (ppm)	0.84	0.2413 (ppm)	15180.1164
11/2/2017 02:21:28	LCSW-301956	Fe (234.350 nm)	0.9321 (ppm)	0.28	0.9321 (ppm)	10900.5782
11/2/2017 02:21:28	LCSW-301956	K (766.491 nm)	19.0606 (ppm)	0.75	19.0606 (ppm)	58908.4333
11/2/2017 02:21:28	LCSW-301956	Mg (279.078 nm)	1.9159 (ppm)	0.58	1.9159 (ppm)	3858.7536
11/2/2017 02:21:28	LCSW-301956	Mn (257.610 nm)	0.4813 (ppm)	0.30	0.4813 (ppm)	155737.0194
11/2/2017 02:21:28	LCSW-301956	Mo (202.032 nm)	0.4602 (ppm)	0.31	0.4602 (ppm)	4941.0496
11/2/2017 02:21:28	LCSW-301956	Na (588.995 nm)	19.4963 (ppm)	0.81	19.4963 (ppm)	888645.8259
11/2/2017 02:21:28	LCSW-301956	Ni (230.299 nm)	0.4945 (ppm)	0.43	0.4945 (ppm)	3405.6371
11/2/2017 02:21:28	LCSW-301956	Pb (220.353 nm)	0.4953 (ppm)	0.22	0.4953 (ppm)	1111.1642
11/2/2017 02:21:28	LCSW-301956	Sb (217.582 nm)	0.4766 (ppm)	0.06	0.4766 (ppm)	684.0664
11/2/2017 02:21:28	LCSW-301956	Se (196.026 nm)	1.0028 (ppm)	0.31	1.0028 (ppm)	881.5203
11/2/2017 02:21:28	LCSW-301956	Sn (189.925 nm)	4.8414 (ppm)	0.42	4.8414 (ppm)	6168.9107
11/2/2017 02:21:28	LCSW-301956	Sr (216.596 nm)	1.9573 (ppm)	0.57	1.9573 (ppm)	29196.6588
11/2/2017 02:21:28	LCSW-301956	Tl (336.122 nm)	0.4801 (ppm)	0.52	0.4801 (ppm)	104859.8111
11/2/2017 02:21:28	LCSW-301956	Tl (351.923 nm)	1.8380 (ppm)	0.69	1.8380 (ppm)	5232.6914
11/2/2017 02:21:28	LCSW-301956	V (292.401 nm)	0.4836 (ppm)	0.44	0.4836 (ppm)	17517.3445
11/2/2017 02:21:28	LCSW-301956	Y (360.074 nm)	1.02 (Ratio)	0.67	1.02 (Ratio)	951995.68
11/2/2017 02:21:28	LCSW-301956	Y_R (360.074 nm)	1.02 (Ratio)	0.66	1.02 (Ratio)	950965.62
11/2/2017 02:21:28	LCSW-301956	Zn (213.857 nm)	0.4858 (ppm)	0.71	0.4858 (ppm)	14085.3722
11/2/2017 02:24:48	R1710073-023	Ag (328.068 nm)	0.0002 (ppm)	62.33	0.0002 (ppm)	-112.6171
11/2/2017 02:24:48	R1710073-023	Al (394.401 nm)	0.1974 (ppm)	0.73	0.1974 (ppm)	2719.0163
11/2/2017 02:24:48	R1710073-023	As (188.980 nm)	0.1272 (ppm)	2.01	0.1272 (ppm)	114.8361
11/2/2017 02:24:48	R1710073-023	B (249.772 nm)	0.0214 (ppm)	2.48	0.0214 (ppm)	703.1178
11/2/2017 02:24:48	R1710073-023	Ba (230.424 nm)	0.0201 (ppm)	1.44	0.0201 (ppm)	711.6006
11/2/2017 02:24:48	R1710073-023	Be (313.107 nm)	0.0000 (ppm)	6.46	0.0000 (ppm)	-439.1808
11/2/2017 02:24:48	R1710073-023	Ca (227.547 nm)	28.8501 (ppm)	0.39	28.8501 (ppm)	1700.4708
11/2/2017 02:24:48	R1710073-023	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	15.4056
11/2/2017 02:24:48	R1710073-023	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.6907
11/2/2017 02:24:48	R1710073-023	Cr (267.716 nm)	0.0006 (ppm)	14.36	0.0006 (ppm)	29.7116
11/2/2017 02:24:48	R1710073-023	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	22.4703
11/2/2017 02:24:48	R1710073-023	Fe (234.350 nm)	10.5881 (ppm)	0.37	10.5881 (ppm)	123075.3780
11/2/2017 02:24:48	R1710073-023	K (766.491 nm)	4.4035 (ppm)	0.70	4.4035 (ppm)	13653.7088
11/2/2017 02:24:48	R1710073-023	Mg (279.078 nm)	8.7414 (ppm)	0.33	8.7414 (ppm)	17631.1753
11/2/2017 02:24:48	R1710073-023	Mn (257.610 nm)	0.1406 (ppm)	0.71	0.1406 (ppm)	45527.3089
11/2/2017 02:24:48	R1710073-023	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	19.3525
11/2/2017 02:24:48	R1710073-023	Na (588.995 nm)	38.4113 (ppm)	0.76	38.4113 (ppm)	1756594.3220
11/2/2017 02:24:48	R1710073-023	Ni (230.299 nm)	-0.0113 u (ppm)	8.71	-0.0113 (ppm)	-104.2246
11/2/2017 02:24:48	R1710073-023	Pb (220.353 nm)	-0.0019 u (ppm)	58.96	-0.0019 (ppm)	1.4133
11/2/2017 02:24:48	R1710073-023	Sb (217.582 nm)	-0.0035 u (ppm)	> 100.00	-0.0035 (ppm)	-0.8071
11/2/2017 02:24:48	R1710073-023	Se (196.026 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	4.3184
11/2/2017 02:24:48	R1710073-023	Sn (189.925 nm)	0.0006 (ppm)	> 100.00	0.0006 (ppm)	0.6336
11/2/2017 02:24:48	R1710073-023	Sr (216.596 nm)	0.2100 (ppm)	0.32	0.2100 (ppm)	3131.5783
11/2/2017 02:24:48	R1710073-023	Tl (336.122 nm)	0.0025 (ppm)	2.68	0.0025 (ppm)	124.7138
11/2/2017 02:24:48	R1710073-023	Tl (351.923 nm)	-0.0027 u (ppm)	50.54	-0.0027 (ppm)	7.0913
11/2/2017 02:24:48	R1710073-023	V (292.401 nm)	0.0007 (ppm)	40.85	0.0007 (ppm)	136.2215
11/2/2017 02:24:48	R1710073-023	Y (360.074 nm)	1.00 (Ratio)	0.70	1.00 (Ratio)	935779.51

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:24:48	R1710073-023	Y_R (360.074 nm)	1.00 (Ratio)	0.70	1.00 (Ratio)	934819.23
11/2/2017 02:24:48	R1710073-023	Zn (213.857 nm)	0.0037 (ppm)	1.50	0.0037 (ppm)	76.2349
11/2/2017 02:28:07	R1710073-024	Ag (328.068 nm)	0.0002 (ppm)	12.95	0.0002 (ppm)	-111.3358
11/2/2017 02:28:07	R1710073-024	Al (394.401 nm)	0.0279 (ppm)	2.11	0.0279 (ppm)	455.8821
11/2/2017 02:28:07	R1710073-024	As (188.980 nm)	0.0189 (ppm)	2.87	0.0189 (ppm)	14.5968
11/2/2017 02:28:07	R1710073-024	B (249.772 nm)	0.0182 (ppm)	1.41	0.0182 (ppm)	613.6081
11/2/2017 02:28:07	R1710073-024	Ba (230.424 nm)	0.0189 (ppm)	0.99	0.0189 (ppm)	669.1853
11/2/2017 02:28:07	R1710073-024	Be (313.107 nm)	0.0000 (ppm)	91.10	0.0000 (ppm)	-496.1154
11/2/2017 02:28:07	R1710073-024	Ca (227.547 nm)	28.7546 (ppm)	0.56	28.7546 (ppm)	1694.8617
11/2/2017 02:28:07	R1710073-024	Cd (214.439 nm)	-0.0001 u (ppm)	49.27	-0.0001 (ppm)	10.4197
11/2/2017 02:28:07	R1710073-024	Co (230.786 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-1.3143
11/2/2017 02:28:07	R1710073-024	Cr (267.716 nm)	-0.0001 u (ppm)	80.48	-0.0001 (ppm)	-6.5021
11/2/2017 02:28:07	R1710073-024	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	25.5684
11/2/2017 02:28:07	R1710073-024	Fe (234.350 nm)	5.0320 (ppm)	0.34	5.0320 (ppm)	58530.1663
11/2/2017 02:28:07	R1710073-024	K (766.491 nm)	4.3848 (ppm)	0.59	4.3848 (ppm)	13595.9018
11/2/2017 02:28:07	R1710073-024	Mg (279.078 nm)	8.6840 (ppm)	0.38	8.6840 (ppm)	17515.4901
11/2/2017 02:28:07	R1710073-024	Mn (257.610 nm)	0.1351 (ppm)	0.75	0.1351 (ppm)	43735.4839
11/2/2017 02:28:07	R1710073-024	Mo (202.032 nm)	-0.0007 u (ppm)	47.64	-0.0007 (ppm)	9.6409
11/2/2017 02:28:07	R1710073-024	Na (588.995 nm)	38.3116 (ppm)	0.70	38.3116 (ppm)	1752019.1404
11/2/2017 02:28:07	R1710073-024	Ni (230.299 nm)	-0.0102 u (ppm)	10.16	-0.0102 (ppm)	-96.5457
11/2/2017 02:28:07	R1710073-024	Pb (220.353 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	5.0502
11/2/2017 02:28:07	R1710073-024	Sb (217.582 nm)	-0.0051 u (ppm)	47.79	-0.0051 (ppm)	-3.1294
11/2/2017 02:28:07	R1710073-024	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	5.9050
11/2/2017 02:28:07	R1710073-024	Sn (189.925 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	-0.9980
11/2/2017 02:28:07	R1710073-024	Sr (216.596 nm)	0.2059 (ppm)	0.11	0.2059 (ppm)	3070.6334
11/2/2017 02:28:07	R1710073-024	Ti (336.122 nm)	0.0006 (ppm)	8.19	0.0006 (ppm)	-292.8699
11/2/2017 02:28:07	R1710073-024	Tl (351.923 nm)	-0.0036 u (ppm)	28.13	-0.0036 (ppm)	4.2999
11/2/2017 02:28:07	R1710073-024	V (292.401 nm)	0.0002 (ppm)	70.33	0.0002 (ppm)	118.4927
11/2/2017 02:28:07	R1710073-024	Y (360.074 nm)	1.00 (Ratio)	0.66	1.00 (Ratio)	939967.09
11/2/2017 02:28:07	R1710073-024	Y_R (360.074 nm)	1.00 (Ratio)	0.65	1.00 (Ratio)	938928.64
11/2/2017 02:28:07	R1710073-024	Zn (213.857 nm)	0.0025 (ppm)	3.31	0.0025 (ppm)	42.2726
11/2/2017 02:31:26	R1710073-028	Ag (328.068 nm)	0.0001 (ppm)	32.16	0.0001 (ppm)	-114.7052
11/2/2017 02:31:26	R1710073-028	Al (394.401 nm)	0.0299 (ppm)	9.23	0.0299 (ppm)	482.2403
11/2/2017 02:31:26	R1710073-028	As (188.980 nm)	0.0188 (ppm)	1.97	0.0188 (ppm)	14.4865
11/2/2017 02:31:26	R1710073-028	B (249.772 nm)	0.1571 (ppm)	0.30	0.1571 (ppm)	4593.7873
11/2/2017 02:31:26	R1710073-028	Ba (230.424 nm)	0.0471 (ppm)	0.09	0.0471 (ppm)	1655.1573
11/2/2017 02:31:26	R1710073-028	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-512.8870
11/2/2017 02:31:26	R1710073-028	Ca (227.547 nm)	25.4667 (ppm)	0.34	25.4667 (ppm)	1501.7667
11/2/2017 02:31:26	R1710073-028	Cd (214.439 nm)	0.0001 (ppm)	44.00	0.0001 (ppm)	14.8283
11/2/2017 02:31:26	R1710073-028	Co (230.786 nm)	0.0021 (ppm)	13.86	0.0021 (ppm)	20.0654
11/2/2017 02:31:26	R1710073-028	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	2.0498
11/2/2017 02:31:26	R1710073-028	Cu (327.395 nm)	0.0002 (ppm)	16.13	0.0002 (ppm)	32.4352
11/2/2017 02:31:26	R1710073-028	Fe (234.350 nm)	17.0753 o (ppm)	0.19	17.0753 (ppm)	198437.9674
11/2/2017 02:31:26	R1710073-028	K (766.491 nm)	17.4089 (ppm)	0.52	17.4089 (ppm)	53808.6328
11/2/2017 02:31:26	R1710073-028	Mg (279.078 nm)	8.0437 (ppm)	0.25	8.0437 (ppm)	16223.4900
11/2/2017 02:31:26	R1710073-028	Mn (257.610 nm)	0.9762 (ppm)	0.11	0.9762 (ppm)	315854.1672
11/2/2017 02:31:26	R1710073-028	Mo (202.032 nm)	-0.0006 u (ppm)	78.98	-0.0006 (ppm)	10.1498
11/2/2017 02:31:26	R1710073-028	Na (588.995 nm)	49.5259 (ppm)	0.56	49.5259 (ppm)	2266603.8559
11/2/2017 02:31:26	R1710073-028	Ni (230.299 nm)	-0.0072 u (ppm)	7.31	-0.0072 (ppm)	-75.9613
11/2/2017 02:31:26	R1710073-028	Pb (220.353 nm)	-0.0010 u (ppm)	65.50	-0.0010 (ppm)	3.4398
11/2/2017 02:31:26	R1710073-028	Sb (217.582 nm)	-0.0037 u (ppm)	97.31	-0.0037 (ppm)	-1.1426

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:31:26	R1710073-028	Se (196.026 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	4.6248
11/2/2017 02:31:26	R1710073-028	Sn (189.925 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.1025
11/2/2017 02:31:26	R1710073-028	Sr (216.596 nm)	0.2127 (ppm)	0.11	0.2127 (ppm)	3172.3073
11/2/2017 02:31:26	R1710073-028	Ti (336.122 nm)	0.0007 (ppm)	3.64	0.0007 (ppm)	-258.8097
11/2/2017 02:31:26	R1710073-028	Tl (351.923 nm)	-0.0043 u (ppm)	55.38	-0.0043 (ppm)	2.4789
11/2/2017 02:31:26	R1710073-028	V (292.401 nm)	0.0013 (ppm)	4.83	0.0013 (ppm)	155.6139
11/2/2017 02:31:26	R1710073-028	Y (360.074 nm)	0.99 (Ratio)	0.63	0.99 (Ratio)	924585.49
11/2/2017 02:31:26	R1710073-028	Y_R (360.074 nm)	0.99 (Ratio)	0.62	0.99 (Ratio)	923388.21
11/2/2017 02:31:26	R1710073-028	Zn (213.857 nm)	0.0054 (ppm)	1.00	0.0054 (ppm)	127.1423
11/2/2017 02:34:46	R1710073-029	Ag (328.068 nm)	0.0002 (ppm)	54.88	0.0002 (ppm)	-109.9123
11/2/2017 02:34:46	R1710073-029	Al (394.401 nm)	0.0204 (ppm)	12.74	0.0204 (ppm)	355.6447
11/2/2017 02:34:46	R1710073-029	As (188.980 nm)	0.0167 (ppm)	12.81	0.0167 (ppm)	12.6026
11/2/2017 02:34:46	R1710073-029	B (249.772 nm)	0.1589 (ppm)	0.34	0.1589 (ppm)	4645.8188
11/2/2017 02:34:46	R1710073-029	Ba (230.424 nm)	0.0471 (ppm)	1.14	0.0471 (ppm)	1655.9814
11/2/2017 02:34:46	R1710073-029	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-506.9831
11/2/2017 02:34:46	R1710073-029	Ca (227.547 nm)	25.6660 (ppm)	0.39	25.6660 (ppm)	1513.4719
11/2/2017 02:34:46	R1710073-029	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	14.7824
11/2/2017 02:34:46	R1710073-029	Co (230.786 nm)	0.0022 (ppm)	9.70	0.0022 (ppm)	21.7252
11/2/2017 02:34:46	R1710073-029	Cr (267.716 nm)	0.0001 (ppm)	89.47	0.0001 (ppm)	4.0921
11/2/2017 02:34:46	R1710073-029	Cu (327.395 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	29.5846
11/2/2017 02:34:46	R1710073-029	Fe (234.350 nm)	17.1437 o (ppm)	0.40	17.1437 (ppm)	199232.8050
11/2/2017 02:34:46	R1710073-029	K (766.491 nm)	17.5826 (ppm)	0.57	17.5826 (ppm)	54344.8598
11/2/2017 02:34:46	R1710073-029	Mg (279.078 nm)	8.1228 (ppm)	0.48	8.1228 (ppm)	16383.0167
11/2/2017 02:34:46	R1710073-029	Mn (257.610 nm)	0.9879 (ppm)	0.29	0.9879 (ppm)	319661.3727
11/2/2017 02:34:46	R1710073-029	Mo (202.032 nm)	-0.0007 u (ppm)	16.29	-0.0007 (ppm)	9.5166
11/2/2017 02:34:46	R1710073-029	Na (588.995 nm)	49.9024 (ppm)	0.75	49.9024 (ppm)	2283881.7674
11/2/2017 02:34:46	R1710073-029	Ni (230.299 nm)	-0.0072 u (ppm)	9.63	-0.0072 (ppm)	-76.2897
11/2/2017 02:34:46	R1710073-029	Pb (220.353 nm)	-0.0014 u (ppm)	> 100.00	-0.0014 (ppm)	2.4979
11/2/2017 02:34:46	R1710073-029	Sb (217.582 nm)	-0.0027 u (ppm)	29.18	-0.0027 (ppm)	0.2630
11/2/2017 02:34:46	R1710073-029	Se (196.026 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	4.4505
11/2/2017 02:34:46	R1710073-029	Sn (189.925 nm)	-0.0020 u (ppm)	28.42	-0.0020 (ppm)	-2.6791
11/2/2017 02:34:46	R1710073-029	Sr (216.596 nm)	0.2156 (ppm)	0.58	0.2156 (ppm)	3214.4249
11/2/2017 02:34:46	R1710073-029	Ti (336.122 nm)	0.0006 (ppm)	6.82	0.0006 (ppm)	-293.6554
11/2/2017 02:34:46	R1710073-029	Tl (351.923 nm)	-0.0025 u (ppm)	56.36	-0.0025 (ppm)	7.6154
11/2/2017 02:34:46	R1710073-029	V (292.401 nm)	0.0013 (ppm)	13.43	0.0013 (ppm)	155.0838
11/2/2017 02:34:46	R1710073-029	Y (360.074 nm)	0.99 (Ratio)	0.76	0.99 (Ratio)	927689.85
11/2/2017 02:34:46	R1710073-029	Y_R (360.074 nm)	0.99 (Ratio)	0.77	0.99 (Ratio)	926552.36
11/2/2017 02:34:46	R1710073-029	Zn (213.857 nm)	0.0064 (ppm)	1.40	0.0064 (ppm)	155.2160
11/2/2017 02:38:07	R1710073-030	Ag (328.068 nm)	0.0003 (ppm)	33.51	0.0003 (ppm)	-107.0752
11/2/2017 02:38:07	R1710073-030	Al (394.401 nm)	2.0267 (ppm)	0.68	2.0267 (ppm)	27146.6331
11/2/2017 02:38:07	R1710073-030	As (188.980 nm)	0.1119 (ppm)	0.90	0.1119 (ppm)	100.6359
11/2/2017 02:38:07	R1710073-030	B (249.772 nm)	0.3977 (ppm)	0.24	0.3977 (ppm)	11488.1717
11/2/2017 02:38:07	R1710073-030	Ba (230.424 nm)	0.1260 (ppm)	0.53	0.1260 (ppm)	4416.8972
11/2/2017 02:38:07	R1710073-030	Be (313.107 nm)	0.0002 (ppm)	4.37	0.0002 (ppm)	-170.4985
11/2/2017 02:38:07	R1710073-030	Ca (227.547 nm)	25.5334 (ppm)	0.78	25.5334 (ppm)	1505.6845
11/2/2017 02:38:07	R1710073-030	Cd (214.439 nm)	0.0002 (ppm)	29.71	0.0002 (ppm)	16.7209
11/2/2017 02:38:07	R1710073-030	Co (230.786 nm)	0.0020 (ppm)	20.34	0.0020 (ppm)	19.6468
11/2/2017 02:38:07	R1710073-030	Cr (267.716 nm)	0.0034 (ppm)	5.43	0.0034 (ppm)	177.1458
11/2/2017 02:38:07	R1710073-030	Cu (327.395 nm)	0.0027 (ppm)	9.27	0.0027 (ppm)	194.0368
11/2/2017 02:38:07	R1710073-030	Fe (234.350 nm)	11.2810 o (ppm)	0.35	11.2810 (ppm)	131124.7940
11/2/2017 02:38:07	R1710073-030	K (766.491 nm)	21.5630 (ppm)	0.69	21.5630 (ppm)	66634.6616

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:38:07	R1710073-030	Mg (279.078 nm)	10.4465 (ppm)	0.39	10.4465 (ppm)	21071.6907
11/2/2017 02:38:07	R1710073-030	Mn (257.610 nm)	0.4605 (ppm)	0.28	0.4605 (ppm)	149005.4930
11/2/2017 02:38:07	R1710073-030	Mo (202.032 nm)	0.0005 (ppm)	15.47	0.0005 (ppm)	22.2770
11/2/2017 02:38:07	R1710073-030	Na (588.995 nm)	71.2398 o (ppm)	0.93	71.2398 (ppm)	3262986.6494
11/2/2017 02:38:07	R1710073-030	Ni (230.299 nm)	-0.0050 u (ppm)	15.89	-0.0050 (ppm)	-60.9895
11/2/2017 02:38:07	R1710073-030	Pb (220.353 nm)	-0.0013 u (ppm)	29.97	-0.0013 (ppm)	2.6957
11/2/2017 02:38:07	R1710073-030	Sb (217.582 nm)	-0.0042 u (ppm)	27.50	-0.0042 (ppm)	-1.8931
11/2/2017 02:38:07	R1710073-030	Se (196.026 nm)	-0.0029 u (ppm)	27.36	-0.0029 (ppm)	2.9736
11/2/2017 02:38:07	R1710073-030	Sn (189.925 nm)	-0.0022 u (ppm)	31.56	-0.0022 (ppm)	-3.0067
11/2/2017 02:38:07	R1710073-030	Sr (216.596 nm)	0.2198 (ppm)	0.55	0.2198 (ppm)	3277.6989
11/2/2017 02:38:07	R1710073-030	Ti (336.122 nm)	0.1202 (ppm)	0.87	0.1202 (ppm)	25930.6964
11/2/2017 02:38:07	R1710073-030	Tl (351.923 nm)	-0.0010 u (ppm)	86.48	-0.0010 (ppm)	11.7409
11/2/2017 02:38:07	R1710073-030	V (292.401 nm)	0.0053 (ppm)	1.00	0.0053 (ppm)	301.3426
11/2/2017 02:38:07	R1710073-030	Y (360.074 nm)	0.99 (Ratio)	0.78	0.99 (Ratio)	927317.91
11/2/2017 02:38:07	R1710073-030	Y_R (360.074 nm)	0.99 (Ratio)	0.78	0.99 (Ratio)	926110.22
11/2/2017 02:38:07	R1710073-030	Zn (213.857 nm)	0.0121 (ppm)	0.64	0.0121 (ppm)	321.8605
11/2/2017 02:41:27	R1710073-031	Ag (328.068 nm)	0.0002 (ppm)	18.95	0.0002 (ppm)	-111.7763
11/2/2017 02:41:27	R1710073-031	Al (394.401 nm)	0.3645 (ppm)	1.00	0.3645 (ppm)	4950.1306
11/2/2017 02:41:27	R1710073-031	As (188.980 nm)	0.1103 (ppm)	1.10	0.1103 (ppm)	99.2308
11/2/2017 02:41:27	R1710073-031	B (249.772 nm)	0.3889 (ppm)	0.25	0.3889 (ppm)	11234.4394
11/2/2017 02:41:27	R1710073-031	Ba (230.424 nm)	0.1156 (ppm)	0.37	0.1156 (ppm)	4051.9957
11/2/2017 02:41:27	R1710073-031	Be (313.107 nm)	0.0001 (ppm)	4.61	0.0001 (ppm)	-378.9149
11/2/2017 02:41:27	R1710073-031	Ca (227.547 nm)	24.8638 (ppm)	0.84	24.8638 (ppm)	1466.3616
11/2/2017 02:41:27	R1710073-031	Cd (214.439 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	13.3843
11/2/2017 02:41:27	R1710073-031	Co (230.786 nm)	0.0010 (ppm)	74.70	0.0010 (ppm)	8.9249
11/2/2017 02:41:27	R1710073-031	Cr (267.716 nm)	0.0008 (ppm)	8.23	0.0008 (ppm)	41.6793
11/2/2017 02:41:27	R1710073-031	Cu (327.395 nm)	0.0004 (ppm)	45.06	0.0004 (ppm)	47.1718
11/2/2017 02:41:27	R1710073-031	Fe (234.350 nm)	9.4756 (ppm)	0.26	9.4756 (ppm)	110151.8507
11/2/2017 02:41:27	R1710073-031	K (766.491 nm)	20.8104 (ppm)	0.63	20.8104 (ppm)	64310.8254
11/2/2017 02:41:27	R1710073-031	Mg (279.078 nm)	9.7666 (ppm)	0.25	9.7666 (ppm)	19699.7743
11/2/2017 02:41:27	R1710073-031	Mn (257.610 nm)	0.4316 (ppm)	0.28	0.4316 (ppm)	139678.7451
11/2/2017 02:41:27	R1710073-031	Mo (202.032 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	19.0292
11/2/2017 02:41:27	R1710073-031	Na (588.995 nm)	69.7829 o (ppm)	0.66	69.7829 (ppm)	3196135.9349
11/2/2017 02:41:27	R1710073-031	Ni (230.299 nm)	-0.0045 u (ppm)	9.68	-0.0045 (ppm)	-57.4302
11/2/2017 02:41:27	R1710073-031	Pb (220.353 nm)	-0.0023 u (ppm)	20.23	-0.0023 (ppm)	0.5163
11/2/2017 02:41:27	R1710073-031	Sb (217.582 nm)	-0.0038 u (ppm)	62.79	-0.0038 (ppm)	-1.3203
11/2/2017 02:41:27	R1710073-031	Se (196.026 nm)	-0.0019 u (ppm)	93.41	-0.0019 (ppm)	3.8674
11/2/2017 02:41:27	R1710073-031	Sn (189.925 nm)	-0.0018 u (ppm)	53.13	-0.0018 (ppm)	-2.3998
11/2/2017 02:41:27	R1710073-031	Sr (216.596 nm)	0.2120 (ppm)	0.72	0.2120 (ppm)	3161.5641
11/2/2017 02:41:27	R1710073-031	Ti (336.122 nm)	0.0209 (ppm)	0.68	0.0209 (ppm)	4162.0068
11/2/2017 02:41:27	R1710073-031	Tl (351.923 nm)	-0.0045 u (ppm)	> 100.00	-0.0045 (ppm)	1.7303
11/2/2017 02:41:27	R1710073-031	V (292.401 nm)	0.0016 (ppm)	7.77	0.0016 (ppm)	169.3723
11/2/2017 02:41:27	R1710073-031	Y (360.074 nm)	0.99 (Ratio)	0.72	0.99 (Ratio)	923870.91
11/2/2017 02:41:27	R1710073-031	Y_R (360.074 nm)	0.99 (Ratio)	0.72	0.99 (Ratio)	922677.88
11/2/2017 02:41:27	R1710073-031	Zn (213.857 nm)	0.0043 (ppm)	3.72	0.0043 (ppm)	92.7668
11/2/2017 02:44:48	R1710073-032	Ag (328.068 nm)	0.0003 (ppm)	47.70	0.0003 (ppm)	-106.2372
11/2/2017 02:44:48	R1710073-032	Al (394.401 nm)	0.0420 (ppm)	1.25	0.0420 (ppm)	643.7658
11/2/2017 02:44:48	R1710073-032	As (188.980 nm)	0.1801 (ppm)	1.51	0.1801 (ppm)	163.8133
11/2/2017 02:44:48	R1710073-032	B (249.772 nm)	0.5766 (ppm)	0.35	0.5766 (ppm)	16614.0522
11/2/2017 02:44:48	R1710073-032	Ba (230.424 nm)	0.0789 (ppm)	0.78	0.0789 (ppm)	2769.4546
11/2/2017 02:44:48	R1710073-032	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-500.8199

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:44:48	R1710073-032	Ca (227.547 nm)	16.8349 (ppm)	0.71	16.8349 (ppm)	994.8438
11/2/2017 02:44:48	R1710073-032	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	13.6119
11/2/2017 02:44:48	R1710073-032	Co (230.786 nm)	0.0026 (ppm)	4.08	0.0026 (ppm)	25.5787
11/2/2017 02:44:48	R1710073-032	Cr (267.716 nm)	0.0016 (ppm)	5.16	0.0016 (ppm)	82.5244
11/2/2017 02:44:48	R1710073-032	Cu (327.395 nm)	0.0051 (ppm)	3.78	0.0051 (ppm)	342.0698
11/2/2017 02:44:48	R1710073-032	Fe (234.350 nm)	11.6704 o (ppm)	0.24	11.6704 (ppm)	135648.4017
11/2/2017 02:44:48	R1710073-032	K (766.491 nm)	34.7916 (ppm)	0.61	34.7916 (ppm)	107478.7780
11/2/2017 02:44:48	R1710073-032	Mg (279.078 nm)	6.4185 (ppm)	0.31	6.4185 (ppm)	12944.0837
11/2/2017 02:44:48	R1710073-032	Mn (257.610 nm)	0.4291 (ppm)	0.41	0.4291 (ppm)	138855.1555
11/2/2017 02:44:48	R1710073-032	Mo (202.032 nm)	0.0023 (ppm)	21.99	0.0023 (ppm)	41.7929
11/2/2017 02:44:48	R1710073-032	Na (588.995 nm)	81.2594 o (ppm)	0.72	81.2594 (ppm)	3722756.1494
11/2/2017 02:44:48	R1710073-032	Ni (230.299 nm)	0.0024 (ppm)	52.83	0.0024 (ppm)	-9.5086
11/2/2017 02:44:48	R1710073-032	Pb (220.353 nm)	-0.0009 u (ppm)	94.82	-0.0009 (ppm)	3.6870
11/2/2017 02:44:48	R1710073-032	Sb (217.582 nm)	-0.0029 u (ppm)	28.95	-0.0029 (ppm)	-0.0520
11/2/2017 02:44:48	R1710073-032	Se (196.026 nm)	-0.0030 u (ppm)	31.14	-0.0030 (ppm)	2.9350
11/2/2017 02:44:48	R1710073-032	Sn (189.925 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	0.3924
11/2/2017 02:44:48	R1710073-032	Sr (216.596 nm)	0.1437 (ppm)	0.09	0.1437 (ppm)	2142.1905
11/2/2017 02:44:48	R1710073-032	Ti (336.122 nm)	0.0014 (ppm)	0.66	0.0014 (ppm)	-103.6093
11/2/2017 02:44:48	R1710073-032	Tl (351.923 nm)	-0.0041 u (ppm)	17.61	-0.0041 (ppm)	3.0641
11/2/2017 02:44:48	R1710073-032	V (292.401 nm)	0.0023 (ppm)	1.73	0.0023 (ppm)	193.8258
11/2/2017 02:44:48	R1710073-032	Y (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	923516.84
11/2/2017 02:44:48	R1710073-032	Y_R (360.074 nm)	0.99 (Ratio)	0.68	0.99 (Ratio)	922176.93
11/2/2017 02:44:48	R1710073-032	Zn (213.857 nm)	0.0069 (ppm)	1.39	0.0069 (ppm)	168.9943
11/2/2017 02:48:09	R1710073-033	Ag (328.068 nm)	0.0003 (ppm)	22.27	0.0003 (ppm)	-105.3191
11/2/2017 02:48:09	R1710073-033	Al (394.401 nm)	0.0154 (ppm)	2.16	0.0154 (ppm)	288.8989
11/2/2017 02:48:09	R1710073-033	As (188.980 nm)	0.1725 (ppm)	0.68	0.1725 (ppm)	156.7569
11/2/2017 02:48:09	R1710073-033	B (249.772 nm)	0.5630 (ppm)	0.43	0.5630 (ppm)	16225.3244
11/2/2017 02:48:09	R1710073-033	Ba (230.424 nm)	0.0749 (ppm)	0.50	0.0749 (ppm)	2628.0676
11/2/2017 02:48:09	R1710073-033	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-499.8386
11/2/2017 02:48:09	R1710073-033	Ca (227.547 nm)	16.2481 (ppm)	0.59	16.2481 (ppm)	960.3800
11/2/2017 02:48:09	R1710073-033	Cd (214.439 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	14.1263
11/2/2017 02:48:09	R1710073-033	Co (230.786 nm)	0.0028 (ppm)	5.00	0.0028 (ppm)	27.3980
11/2/2017 02:48:09	R1710073-033	Cr (267.716 nm)	0.0011 (ppm)	11.04	0.0011 (ppm)	56.8758
11/2/2017 02:48:09	R1710073-033	Cu (327.395 nm)	0.0002 (ppm)	83.06	0.0002 (ppm)	33.2788
11/2/2017 02:48:09	R1710073-033	Fe (234.350 nm)	10.9589 (ppm)	0.35	10.9589 (ppm)	127383.5779
11/2/2017 02:48:09	R1710073-033	K (766.491 nm)	33.7311 (ppm)	0.54	33.7311 (ppm)	104204.5162
11/2/2017 02:48:09	R1710073-033	Mg (279.078 nm)	6.2024 (ppm)	0.41	6.2024 (ppm)	12508.0570
11/2/2017 02:48:09	R1710073-033	Mn (257.610 nm)	0.4070 (ppm)	0.49	0.4070 (ppm)	131718.3726
11/2/2017 02:48:09	R1710073-033	Mo (202.032 nm)	0.0023 (ppm)	4.14	0.0023 (ppm)	41.1696
11/2/2017 02:48:09	R1710073-033	Na (588.995 nm)	78.7902 o (ppm)	0.61	78.7902 (ppm)	3609451.0494
11/2/2017 02:48:09	R1710073-033	Ni (230.299 nm)	0.0027 (ppm)	2.56	0.0027 (ppm)	-7.2630
11/2/2017 02:48:09	R1710073-033	Pb (220.353 nm)	-0.0015 u (ppm)	87.04	-0.0015 (ppm)	2.2778
11/2/2017 02:48:09	R1710073-033	Sb (217.582 nm)	-0.0036 u (ppm)	40.46	-0.0036 (ppm)	-1.0514
11/2/2017 02:48:09	R1710073-033	Se (196.026 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	4.3976
11/2/2017 02:48:09	R1710073-033	Sn (189.925 nm)	0.0010 (ppm)	21.16	0.0010 (ppm)	1.1769
11/2/2017 02:48:09	R1710073-033	Sr (216.596 nm)	0.1389 (ppm)	0.63	0.1389 (ppm)	2071.4121
11/2/2017 02:48:09	R1710073-033	Ti (336.122 nm)	0.0008 (ppm)	3.09	0.0008 (ppm)	-235.5668
11/2/2017 02:48:09	R1710073-033	Tl (351.923 nm)	-0.0038 u (ppm)	68.66	-0.0038 (ppm)	3.7974
11/2/2017 02:48:09	R1710073-033	V (292.401 nm)	0.0021 (ppm)	7.15	0.0021 (ppm)	186.2137
11/2/2017 02:48:09	R1710073-033	Y (360.074 nm)	0.99 (Ratio)	0.62	0.99 (Ratio)	927335.17
11/2/2017 02:48:09	R1710073-033	Y_R (360.074 nm)	0.99 (Ratio)	0.62	0.99 (Ratio)	925986.49

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:48:09	R1710073-033	Zn (213.857 nm)	0.0030 (ppm)	2.47	0.0030 (ppm)	57.7992
11/2/2017 02:51:28	Continuing Calibration Verification1	Ag (328.068 nm)	0.4800 (ppm)	0.38	0.4800 (ppm)	35132.9165
11/2/2017 02:51:28	Continuing Calibration Verification1	Al (394.401 nm)	9.4390 (ppm)	0.58	9.4390 (ppm)	126125.9932
11/2/2017 02:51:28	Continuing Calibration Verification1	As (188.980 nm)	0.9409 (ppm)	1.12	0.9409 (ppm)	867.9482
11/2/2017 02:51:28	Continuing Calibration Verification1	B (249.772 nm)	2.3597 (ppm)	0.41	2.3597 (ppm)	67713.8803
11/2/2017 02:51:28	Continuing Calibration Verification1	Ba (230.424 nm)	9.9374 (ppm)	0.26	9.9374 (ppm)	347793.7202
11/2/2017 02:51:28	Continuing Calibration Verification1	Be (313.107 nm)	0.2475 (ppm)	0.41	0.2475 (ppm)	374939.3814
11/2/2017 02:51:28	Continuing Calibration Verification1	Ca (227.547 nm)	23.9991 (ppm)	0.51	23.9991 (ppm)	1415.5811
11/2/2017 02:51:28	Continuing Calibration Verification1	Cd (214.439 nm)	0.4783 (ppm)	0.21	0.4783 (ppm)	10890.1561
11/2/2017 02:51:28	Continuing Calibration Verification1	Co (230.786 nm)	2.5024 (ppm)	0.38	2.5024 (ppm)	25753.7950
11/2/2017 02:51:28	Continuing Calibration Verification1	Cr (267.716 nm)	0.4834 (ppm)	0.40	0.4834 (ppm)	25212.3295
11/2/2017 02:51:28	Continuing Calibration Verification1	Cu (327.395 nm)	1.2008 (ppm)	0.65	1.2008 (ppm)	75443.9382
11/2/2017 02:51:28	Continuing Calibration Verification1	Fe (234.350 nm)	4.6767 (ppm)	0.39	4.6767 (ppm)	54402.0775
11/2/2017 02:51:28	Continuing Calibration Verification1	K (766.491 nm)	24.6665 (ppm)	0.72	24.6665 (ppm)	76216.9204
11/2/2017 02:51:28	Continuing Calibration Verification1	Mg (279.078 nm)	24.0300 (ppm)	0.40	24.0300 (ppm)	48480.2776
11/2/2017 02:51:28	Continuing Calibration Verification1	Mn (257.610 nm)	0.7313 (ppm)	0.33	0.7313 (ppm)	236615.6747
11/2/2017 02:51:28	Continuing Calibration Verification1	Mo (202.032 nm)	2.3328 (ppm)	0.31	2.3328 (ppm)	24977.1817
11/2/2017 02:51:28	Continuing Calibration Verification1	Na (588.995 nm)	24.8816 (ppm)	0.73	24.8816 (ppm)	1135757.5902
11/2/2017 02:51:28	Continuing Calibration Verification1	Ni (230.299 nm)	1.9653 (ppm)	0.32	1.9653 (ppm)	13611.4477
11/2/2017 02:51:28	Continuing Calibration Verification1	Pb (220.353 nm)	0.4814 (ppm)	0.67	0.4814 (ppm)	1080.2117
11/2/2017 02:51:28	Continuing Calibration Verification1	Sb (217.582 nm)	4.7740 (ppm)	0.46	4.7740 (ppm)	6814.6993
11/2/2017 02:51:28	Continuing Calibration Verification1	Se (196.026 nm)	0.4703 (ppm)	0.51	0.4703 (ppm)	416.3737
11/2/2017 02:51:28	Continuing Calibration Verification1	Sn (189.925 nm)	4.8771 (ppm)	0.37	4.8771 (ppm)	6214.3551
11/2/2017 02:51:28	Continuing Calibration Verification1	Sr (216.596 nm)	2.4134 (ppm)	0.43	2.4134 (ppm)	35999.7811
11/2/2017 02:51:28	Continuing Calibration Verification1	Ti (336.122 nm)	2.4461 (ppm)	0.69	2.4461 (ppm)	536012.7233
11/2/2017 02:51:28	Continuing Calibration Verification1	Tl (351.923 nm)	0.9738 (ppm)	0.46	0.9738 (ppm)	2779.2724
11/2/2017 02:51:28	Continuing Calibration Verification1	V (292.401 nm)	2.4485 (ppm)	0.44	2.4485 (ppm)	88246.6301
11/2/2017 02:51:28	Continuing Calibration Verification1	Y (360.074 nm)	0.99 (Ratio)	0.87	0.99 (Ratio)	925914.32
11/2/2017 02:51:28	Continuing Calibration Verification1	Y_R (360.074 nm)	0.99 (Ratio)	0.86	0.99 (Ratio)	924542.89
11/2/2017 02:51:28	Continuing Calibration Verification1	Zn (213.857 nm)	0.9652 (ppm)	0.30	0.9652 (ppm)	28014.3955
11/2/2017 02:54:47	Continuing Calibration Blank1	Ag (328.068 nm)	0.0002 (ppm)	34.52	0.0002 (ppm)	-107.9570
11/2/2017 02:54:47	Continuing Calibration Blank1	Al (394.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	82.0424
11/2/2017 02:54:47	Continuing Calibration Blank1	As (188.980 nm)	0.0012 u (ppm)	95.98	0.0012 (ppm)	-1.7723
11/2/2017 02:54:47	Continuing Calibration Blank1	B (249.772 nm)	0.0012 (ppm)	61.43	0.0012 (ppm)	124.1417
11/2/2017 02:54:47	Continuing Calibration Blank1	Ba (230.424 nm)	0.0004 (ppm)	21.10	0.0004 (ppm)	20.4791
11/2/2017 02:54:47	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	52.41	0.0000 (ppm)	-484.2296
11/2/2017 02:54:47	Continuing Calibration Blank1	Ca (227.547 nm)	0.0189 (ppm)	> 100.00	0.0189 (ppm)	7.2815
11/2/2017 02:54:47	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	29.77	0.0001 (ppm)	15.1981
11/2/2017 02:54:47	Continuing Calibration Blank1	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-3.5334
11/2/2017 02:54:47	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-1.6637
11/2/2017 02:54:47	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	22.4674
11/2/2017 02:54:47	Continuing Calibration Blank1	Fe (234.350 nm)	0.0004 (ppm)	69.77	0.0004 (ppm)	77.2796
11/2/2017 02:54:47	Continuing Calibration Blank1	K (766.491 nm)	0.0142 (ppm)	43.56	0.0142 (ppm)	101.3742
11/2/2017 02:54:47	Continuing Calibration Blank1	Mg (279.078 nm)	0.0026 (ppm)	34.29	0.0026 (ppm)	-1.7868
11/2/2017 02:54:47	Continuing Calibration Blank1	Mn (257.610 nm)	0.0009 (ppm)	27.93	0.0009 (ppm)	309.3093
11/2/2017 02:54:47	Continuing Calibration Blank1	Mo (202.032 nm)	0.0018 (ppm)	3.51	0.0018 (ppm)	36.1575
11/2/2017 02:54:47	Continuing Calibration Blank1	Na (588.995 nm)	0.0120 (ppm)	8.05	0.0120 (ppm)	-5429.4631
11/2/2017 02:54:47	Continuing Calibration Blank1	Ni (230.299 nm)	0.0008 (ppm)	9.51	0.0008 (ppm)	-20.7389
11/2/2017 02:54:47	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.1972
11/2/2017 02:54:47	Continuing Calibration Blank1	Sb (217.582 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	4.8073
11/2/2017 02:54:47	Continuing Calibration Blank1	Se (196.026 nm)	-0.0012 u (ppm)	67.03	-0.0012 (ppm)	4.4300

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 02:54:47	Continuing Calibration Blank1	Sn (189.925 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-0.3324
11/2/2017 02:54:47	Continuing Calibration Blank1	Sr (216.596 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	1.5288
11/2/2017 02:54:47	Continuing Calibration Blank1	Ti (336.122 nm)	0.0008 (ppm)	5.61	0.0008 (ppm)	-233.9718
11/2/2017 02:54:47	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	12.7537
11/2/2017 02:54:47	Continuing Calibration Blank1	V (292.401 nm)	-0.0002 u (ppm)	33.17	-0.0002 (ppm)	104.1886
11/2/2017 02:54:47	Continuing Calibration Blank1	Y (360.074 nm)	1.04 (Ratio)	0.77	1.04 (Ratio)	972229.96
11/2/2017 02:54:47	Continuing Calibration Blank1	Y_R (360.074 nm)	1.04 (Ratio)	0.77	1.04 (Ratio)	970582.49
11/2/2017 02:54:47	Continuing Calibration Blank1	Zn (213.857 nm)	0.0002 (ppm)	18.67	0.0002 (ppm)	-24.1423
11/2/2017 02:58:06	R1710073-033L	Ag (328.068 nm)	0.0003 (ppm)	21.46	0.0003 (ppm)	-104.6547
11/2/2017 02:58:06	R1710073-033L	Al (394.401 nm)	0.0036 (ppm)	8.83	0.0036 (ppm)	131.1040
11/2/2017 02:58:06	R1710073-033L	As (188.980 nm)	0.0347 (ppm)	9.52	0.0347 (ppm)	29.2151
11/2/2017 02:58:06	R1710073-033L	B (249.772 nm)	0.1065 (ppm)	0.58	0.1065 (ppm)	3141.9380
11/2/2017 02:58:06	R1710073-033L	Ba (230.424 nm)	0.0151 (ppm)	1.09	0.0151 (ppm)	537.5726
11/2/2017 02:58:06	R1710073-033L	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-506.6826
11/2/2017 02:58:06	R1710073-033L	Ca (227.547 nm)	3.0124 (ppm)	2.52	3.0124 (ppm)	183.0816
11/2/2017 02:58:06	R1710073-033L	Cd (214.439 nm)	0.0001 (ppm)	71.83	0.0001 (ppm)	13.9535
11/2/2017 02:58:06	R1710073-033L	Co (230.786 nm)	0.0004 (ppm)	55.67	0.0004 (ppm)	2.3812
11/2/2017 02:58:06	R1710073-033L	Cr (267.716 nm)	0.0002 (ppm)	37.28	0.0002 (ppm)	10.0029
11/2/2017 02:58:06	R1710073-033L	Cu (327.395 nm)	0.0001 (ppm)	57.59	0.0001 (ppm)	30.5942
11/2/2017 02:58:06	R1710073-033L	Fe (234.350 nm)	2.2408 (ppm)	0.38	2.2408 (ppm)	26103.9159
11/2/2017 02:58:06	R1710073-033L	K (766.491 nm)	6.3554 (ppm)	0.90	6.3554 (ppm)	19680.2613
11/2/2017 02:58:06	R1710073-033L	Mg (279.078 nm)	1.2380 (ppm)	0.13	1.2380 (ppm)	2491.0754
11/2/2017 02:58:06	R1710073-033L	Mn (257.610 nm)	0.0839 (ppm)	0.25	0.0839 (ppm)	27168.8233
11/2/2017 02:58:06	R1710073-033L	Mo (202.032 nm)	0.0006 (ppm)	85.62	0.0006 (ppm)	22.7489
11/2/2017 02:58:06	R1710073-033L	Na (588.995 nm)	15.8456 (ppm)	0.84	15.8456 (ppm)	721123.9519
11/2/2017 02:58:06	R1710073-033L	Ni (230.299 nm)	0.0014 (ppm)	52.22	0.0014 (ppm)	-16.1463
11/2/2017 02:58:06	R1710073-033L	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.8371
11/2/2017 02:58:06	R1710073-033L	Sb (217.582 nm)	-0.0028 u (ppm)	15.26	-0.0028 (ppm)	0.1358
11/2/2017 02:58:06	R1710073-033L	Se (196.026 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.5822
11/2/2017 02:58:06	R1710073-033L	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.0364
11/2/2017 02:58:06	R1710073-033L	Sr (216.596 nm)	0.0277 (ppm)	1.38	0.0277 (ppm)	412.6250
11/2/2017 02:58:06	R1710073-033L	Ti (336.122 nm)	0.0002 (ppm)	21.65	0.0002 (ppm)	-376.6992
11/2/2017 02:58:06	R1710073-033L	Tl (351.923 nm)	-0.0008 u (ppm)	> 100.00	-0.0008 (ppm)	12.2353
11/2/2017 02:58:06	R1710073-033L	V (292.401 nm)	0.0003 (ppm)	10.69	0.0003 (ppm)	121.3801
11/2/2017 02:58:06	R1710073-033L	Y (360.074 nm)	1.02 (Ratio)	0.79	1.02 (Ratio)	957178.71
11/2/2017 02:58:06	R1710073-033L	Y_R (360.074 nm)	1.02 (Ratio)	0.79	1.02 (Ratio)	955744.61
11/2/2017 02:58:06	R1710073-033L	Zn (213.857 nm)	0.0013 (ppm)	7.92	0.0013 (ppm)	7.6747
11/2/2017 03:01:26	R1710163-003	Ag (328.068 nm)	0.0003 (ppm)	45.76	0.0003 (ppm)	-103.1505
11/2/2017 03:01:26	R1710163-003	Al (394.401 nm)	0.0254 (ppm)	1.70	0.0254 (ppm)	422.3816
11/2/2017 03:01:26	R1710163-003	As (188.980 nm)	0.0012 u (ppm)	> 100.00	0.0012 (ppm)	-1.7821
11/2/2017 03:01:26	R1710163-003	B (249.772 nm)	0.1164 (ppm)	0.63	0.1164 (ppm)	3425.6545
11/2/2017 03:01:26	R1710163-003	Ba (230.424 nm)	0.0497 (ppm)	0.14	0.0497 (ppm)	1748.8587
11/2/2017 03:01:26	R1710163-003	Be (313.107 nm)	0.0000 (ppm)	35.56	0.0000 (ppm)	-528.4362
11/2/2017 03:01:26	R1710163-003	Ca (227.547 nm)	64.0336 o (ppm)	0.49	64.0336 (ppm)	3766.7146
11/2/2017 03:01:26	R1710163-003	Cd (214.439 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	11.2697
11/2/2017 03:01:26	R1710163-003	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.6683
11/2/2017 03:01:26	R1710163-003	Cr (267.716 nm)	0.0008 (ppm)	6.77	0.0008 (ppm)	42.9502
11/2/2017 03:01:26	R1710163-003	Cu (327.395 nm)	0.0034 (ppm)	1.17	0.0034 (ppm)	237.8785
11/2/2017 03:01:26	R1710163-003	Fe (234.350 nm)	0.1719 (ppm)	0.20	0.1719 (ppm)	2069.8343
11/2/2017 03:01:26	R1710163-003	K (766.491 nm)	5.2602 (ppm)	0.48	5.2602 (ppm)	16298.7678
11/2/2017 03:01:26	R1710163-003	Mg (279.078 nm)	38.0931 (ppm)	0.33	38.0931 (ppm)	76856.4999

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:01:26	R1710163-003	Mn (257.610 nm)	0.0078 (ppm)	9.96	0.0078 (ppm)	2564.0028
11/2/2017 03:01:26	R1710163-003	Mo (202.032 nm)	0.0116 (ppm)	3.56	0.0116 (ppm)	140.7295
11/2/2017 03:01:26	R1710163-003	Na (588.995 nm)	87.1418 o (ppm)	0.73	87.1418 (ppm)	3992681.1509
11/2/2017 03:01:26	R1710163-003	Ni (230.299 nm)	-0.0112 u (ppm)	9.96	-0.0112 (ppm)	-103.8256
11/2/2017 03:01:26	R1710163-003	Pb (220.353 nm)	0.0128 (ppm)	9.75	0.0128 (ppm)	34.1093
11/2/2017 03:01:26	R1710163-003	Sb (217.582 nm)	-0.0035 u (ppm)	27.72	-0.0035 (ppm)	-0.9316
11/2/2017 03:01:26	R1710163-003	Se (196.026 nm)	-0.0014 u (ppm)	83.65	-0.0014 (ppm)	4.2837
11/2/2017 03:01:26	R1710163-003	Sn (189.925 nm)	-0.0018 u (ppm)	63.76	-0.0018 (ppm)	-2.4195
11/2/2017 03:01:26	R1710163-003	Sr (216.596 nm)	2.5917 (ppm)	0.40	2.5917 (ppm)	38660.2919
11/2/2017 03:01:26	R1710163-003	Ti (336.122 nm)	0.0009 (ppm)	2.40	0.0009 (ppm)	-213.2097
11/2/2017 03:01:26	R1710163-003	Tl (351.923 nm)	-0.0019 u (ppm)	10.23	-0.0019 (ppm)	9.3443
11/2/2017 03:01:26	R1710163-003	V (292.401 nm)	0.0125 (ppm)	0.48	0.0125 (ppm)	558.8603
11/2/2017 03:01:26	R1710163-003	Y (360.074 nm)	0.98 (Ratio)	0.66	0.98 (Ratio)	913427.81
11/2/2017 03:01:26	R1710163-003	Y_R (360.074 nm)	0.97 (Ratio)	0.67	0.97 (Ratio)	912287.47
11/2/2017 03:01:26	R1710163-003	Zn (213.857 nm)	0.0863 (ppm)	0.51	0.0863 (ppm)	2477.4628
11/2/2017 03:04:46	R1710163-010	Ag (328.068 nm)	0.0004 (ppm)	21.95	0.0004 (ppm)	-97.9552
11/2/2017 03:04:46	R1710163-010	Al (394.401 nm)	0.0225 (ppm)	3.28	0.0225 (ppm)	384.3774
11/2/2017 03:04:46	R1710163-010	As (188.980 nm)	0.0039 (ppm)	38.68	0.0039 (ppm)	0.7323
11/2/2017 03:04:46	R1710163-010	B (249.772 nm)	0.1507 (ppm)	0.16	0.1507 (ppm)	4410.7769
11/2/2017 03:04:46	R1710163-010	Ba (230.424 nm)	0.0184 (ppm)	0.67	0.0184 (ppm)	651.5447
11/2/2017 03:04:46	R1710163-010	Be (313.107 nm)	0.0000 (ppm)	24.51	0.0000 (ppm)	-531.9262
11/2/2017 03:04:46	R1710163-010	Ca (227.547 nm)	59.7991 o (ppm)	0.44	59.7991 (ppm)	3518.0318
11/2/2017 03:04:46	R1710163-010	Cd (214.439 nm)	-0.0001 u (ppm)	42.28	-0.0001 (ppm)	9.2153
11/2/2017 03:04:46	R1710163-010	Co (230.786 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	1.2148
11/2/2017 03:04:46	R1710163-010	Cr (267.716 nm)	0.0014 (ppm)	8.04	0.0014 (ppm)	70.8735
11/2/2017 03:04:46	R1710163-010	Cu (327.395 nm)	0.0004 (ppm)	9.78	0.0004 (ppm)	49.2618
11/2/2017 03:04:46	R1710163-010	Fe (234.350 nm)	0.1730 (ppm)	0.45	0.1730 (ppm)	2081.9731
11/2/2017 03:04:46	R1710163-010	K (766.491 nm)	3.8728 (ppm)	0.45	3.8728 (ppm)	12015.1547
11/2/2017 03:04:46	R1710163-010	Mg (279.078 nm)	35.8105 (ppm)	0.27	35.8105 (ppm)	72250.7944
11/2/2017 03:04:46	R1710163-010	Mn (257.610 nm)	0.0079 (ppm)	9.70	0.0079 (ppm)	2601.7125
11/2/2017 03:04:46	R1710163-010	Mo (202.032 nm)	0.0143 (ppm)	0.97	0.0143 (ppm)	169.3191
11/2/2017 03:04:46	R1710163-010	Na (588.995 nm)	80.4997 o (ppm)	0.79	80.4997 (ppm)	3687892.2365
11/2/2017 03:04:46	R1710163-010	Ni (230.299 nm)	-0.0125 u (ppm)	5.81	-0.0125 (ppm)	-112.6681
11/2/2017 03:04:46	R1710163-010	Pb (220.353 nm)	-0.0021 u (ppm)	34.45	-0.0021 (ppm)	0.8906
11/2/2017 03:04:46	R1710163-010	Sb (217.582 nm)	-0.0037 u (ppm)	9.64	-0.0037 (ppm)	-1.1362
11/2/2017 03:04:46	R1710163-010	Se (196.026 nm)	0.0004 u (ppm)	> 100.00	0.0004 (ppm)	5.8916
11/2/2017 03:04:46	R1710163-010	Sn (189.925 nm)	-0.0025 u (ppm)	53.27	-0.0025 (ppm)	-3.3490
11/2/2017 03:04:46	R1710163-010	Sr (216.596 nm)	1.8659 (ppm)	0.70	1.8659 (ppm)	27833.3674
11/2/2017 03:04:46	R1710163-010	Ti (336.122 nm)	0.0010 (ppm)	7.30	0.0010 (ppm)	-208.9533
11/2/2017 03:04:46	R1710163-010	Tl (351.923 nm)	-0.0010 u (ppm)	> 100.00	-0.0010 (ppm)	11.7984
11/2/2017 03:04:46	R1710163-010	V (292.401 nm)	0.0149 (ppm)	0.59	0.0149 (ppm)	647.3649
11/2/2017 03:04:46	R1710163-010	Y (360.074 nm)	0.98 (Ratio)	0.60	0.98 (Ratio)	914432.63
11/2/2017 03:04:46	R1710163-010	Y_R (360.074 nm)	0.98 (Ratio)	0.60	0.98 (Ratio)	913229.05
11/2/2017 03:04:46	R1710163-010	Zn (213.857 nm)	0.0268 (ppm)	0.42	0.0268 (ppm)	747.0604
11/2/2017 03:08:07	R1710194-001	Ag (328.068 nm)	0.0003 (ppm)	14.22	0.0003 (ppm)	-106.0752
11/2/2017 03:08:07	R1710194-001	Al (394.401 nm)	0.0543 (ppm)	1.99	0.0543 (ppm)	808.7464
11/2/2017 03:08:07	R1710194-001	As (188.980 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-3.7003
11/2/2017 03:08:07	R1710194-001	B (249.772 nm)	0.1233 (ppm)	0.37	0.1233 (ppm)	3623.4112
11/2/2017 03:08:07	R1710194-001	Ba (230.424 nm)	0.1696 (ppm)	0.30	0.1696 (ppm)	5944.2041
11/2/2017 03:08:07	R1710194-001	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-509.2863
11/2/2017 03:08:07	R1710194-001	Ca (227.547 nm)	102.7501 o (ppm)	0.63	102.7501 (ppm)	6040.4440

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:08:07	R1710194-001	Cd (214.439 nm)	0.0003 (ppm)	58.97	0.0003 (ppm)	19.3580
11/2/2017 03:08:07	R1710194-001	Co (230.786 nm)	-0.0008 u (ppm)	54.48	-0.0008 (ppm)	-9.8180
11/2/2017 03:08:07	R1710194-001	Cr (267.716 nm)	0.0012 (ppm)	4.22	0.0012 (ppm)	62.3618
11/2/2017 03:08:07	R1710194-001	Cu (327.395 nm)	0.0003 (ppm)	10.61	0.0003 (ppm)	38.6859
11/2/2017 03:08:07	R1710194-001	Fe (234.350 nm)	41.3419 o (ppm)	0.26	41.3419 (ppm)	480345.3050
11/2/2017 03:08:07	R1710194-001	K (766.491 nm)	4.0748 (ppm)	0.83	4.0748 (ppm)	12638.6802
11/2/2017 03:08:07	R1710194-001	Mg (279.078 nm)	12.9427 (ppm)	0.32	12.9427 (ppm)	26108.4399
11/2/2017 03:08:07	R1710194-001	Mn (257.610 nm)	0.8572 (ppm)	0.23	0.8572 (ppm)	277370.5634
11/2/2017 03:08:07	R1710194-001	Mo (202.032 nm)	-0.0008 u (ppm)	23.06	-0.0008 (ppm)	8.3247
11/2/2017 03:08:07	R1710194-001	Na (588.995 nm)	2.8204 (ppm)	0.62	2.8204 (ppm)	123438.5920
11/2/2017 03:08:07	R1710194-001	Ni (230.299 nm)	-0.0058 u (ppm)	3.35	-0.0058 (ppm)	-66.5797
11/2/2017 03:08:07	R1710194-001	Pb (220.353 nm)	-0.0016 u (ppm)	24.28	-0.0016 (ppm)	2.0887
11/2/2017 03:08:07	R1710194-001	Sb (217.582 nm)	-0.0045 u (ppm)	39.45	-0.0045 (ppm)	-2.2875
11/2/2017 03:08:07	R1710194-001	Se (196.026 nm)	-0.0027 u (ppm)	78.36	-0.0027 (ppm)	3.1740
11/2/2017 03:08:07	R1710194-001	Sn (189.925 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	0.1411
11/2/2017 03:08:07	R1710194-001	Sr (216.596 nm)	0.2624 (ppm)	0.29	0.2624 (ppm)	3912.4296
11/2/2017 03:08:07	R1710194-001	Ti (336.122 nm)	0.0020 (ppm)	2.00	0.0020 (ppm)	12.8967
11/2/2017 03:08:07	R1710194-001	Tl (351.923 nm)	-0.0018 u (ppm)	> 100.00	-0.0018 (ppm)	9.3778
11/2/2017 03:08:07	R1710194-001	V (292.401 nm)	0.0037 (ppm)	0.99	0.0037 (ppm)	242.6597
11/2/2017 03:08:07	R1710194-001	Y (360.074 nm)	0.99 (Ratio)	0.75	0.99 (Ratio)	922585.91
11/2/2017 03:08:07	R1710194-001	Y_R (360.074 nm)	0.98 (Ratio)	0.75	0.98 (Ratio)	921220.45
11/2/2017 03:08:07	R1710194-001	Zn (213.857 nm)	0.0084 (ppm)	1.98	0.0084 (ppm)	213.7819
11/2/2017 03:11:26	R1710194-002	Ag (328.068 nm)	0.0003 (ppm)	10.04	0.0003 (ppm)	-102.2939
11/2/2017 03:11:26	R1710194-002	Al (394.401 nm)	0.0662 (ppm)	0.67	0.0662 (ppm)	967.1174
11/2/2017 03:11:26	R1710194-002	As (188.980 nm)	0.0039 (ppm)	78.11	0.0039 (ppm)	0.6979
11/2/2017 03:11:26	R1710194-002	B (249.772 nm)	0.0320 (ppm)	0.47	0.0320 (ppm)	1007.9382
11/2/2017 03:11:26	R1710194-002	Ba (230.424 nm)	0.0632 (ppm)	0.38	0.0632 (ppm)	2219.0471
11/2/2017 03:11:26	R1710194-002	Be (313.107 nm)	0.0000 (ppm)	60.19	0.0000 (ppm)	-498.2967
11/2/2017 03:11:26	R1710194-002	Ca (227.547 nm)	107.7210 o (ppm)	0.52	107.7210 (ppm)	6332.3730
11/2/2017 03:11:26	R1710194-002	Cd (214.439 nm)	0.0009 (ppm)	6.44	0.0009 (ppm)	32.7300
11/2/2017 03:11:26	R1710194-002	Co (230.786 nm)	0.0037 (ppm)	11.85	0.0037 (ppm)	36.6935
11/2/2017 03:11:26	R1710194-002	Cr (267.716 nm)	0.0002 (ppm)	28.93	0.0002 (ppm)	8.5469
11/2/2017 03:11:26	R1710194-002	Cu (327.395 nm)	0.0426 (ppm)	0.54	0.0426 (ppm)	2697.2694
11/2/2017 03:11:26	R1710194-002	Fe (234.350 nm)	3.4769 (ppm)	0.21	3.4769 (ppm)	40464.0904
11/2/2017 03:11:26	R1710194-002	K (766.491 nm)	3.4308 (ppm)	0.86	3.4308 (ppm)	10650.2791
11/2/2017 03:11:26	R1710194-002	Mg (279.078 nm)	7.5837 (ppm)	0.21	7.5837 (ppm)	15295.1555
11/2/2017 03:11:26	R1710194-002	Mn (257.610 nm)	0.1613 (ppm)	0.67	0.1613 (ppm)	52203.2640
11/2/2017 03:11:26	R1710194-002	Mo (202.032 nm)	-0.0003 u (ppm)	11.07	-0.0003 (ppm)	13.6278
11/2/2017 03:11:26	R1710194-002	Na (588.995 nm)	0.5811 (ppm)	0.63	0.5811 (ppm)	20686.2926
11/2/2017 03:11:26	R1710194-002	Ni (230.299 nm)	0.0165 (ppm)	0.96	0.0165 (ppm)	88.6618
11/2/2017 03:11:26	R1710194-002	Pb (220.353 nm)	0.0022 (ppm)	13.52	0.0022 (ppm)	10.5152
11/2/2017 03:11:26	R1710194-002	Sb (217.582 nm)	-0.0011 u (ppm)	> 100.00	-0.0011 (ppm)	2.6114
11/2/2017 03:11:26	R1710194-002	Se (196.026 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	4.1546
11/2/2017 03:11:26	R1710194-002	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-1.3506
11/2/2017 03:11:26	R1710194-002	Sr (216.596 nm)	0.2579 (ppm)	0.21	0.2579 (ppm)	3846.7282
11/2/2017 03:11:26	R1710194-002	Ti (336.122 nm)	0.0016 (ppm)	1.20	0.0016 (ppm)	-68.0609
11/2/2017 03:11:26	R1710194-002	Tl (351.923 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	17.8371
11/2/2017 03:11:26	R1710194-002	V (292.401 nm)	0.0098 (ppm)	1.55	0.0098 (ppm)	463.8031
11/2/2017 03:11:26	R1710194-002	Y (360.074 nm)	0.99 (Ratio)	0.67	0.99 (Ratio)	931008.54
11/2/2017 03:11:26	R1710194-002	Y_R (360.074 nm)	0.99 (Ratio)	0.68	0.99 (Ratio)	929629.44
11/2/2017 03:11:26	R1710194-002	Zn (213.857 nm)	0.4962 (ppm)	0.33	0.4962 (ppm)	14385.3390

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:14:46	R1710194-002S	Ag (328.068 nm)	0.0503 (ppm)	0.29	0.0503 (ppm)	3572.8079
11/2/2017 03:14:46	R1710194-002S	Al (394.401 nm)	2.0211 (ppm)	0.65	2.0211 (ppm)	27071.4753
11/2/2017 03:14:46	R1710194-002S	As (188.980 nm)	0.0432 (ppm)	12.08	0.0432 (ppm)	37.0828
11/2/2017 03:14:46	R1710194-002S	B (249.772 nm)	1.0152 (ppm)	0.29	1.0152 (ppm)	29184.0087
11/2/2017 03:14:46	R1710194-002S	Ba (230.424 nm)	2.0732 (ppm)	0.35	2.0732 (ppm)	72566.1941
11/2/2017 03:14:46	R1710194-002S	Be (313.107 nm)	0.0502 (ppm)	0.40	0.0502 (ppm)	75646.6933
11/2/2017 03:14:46	R1710194-002S	Ca (227.547 nm)	113.8071 o (ppm)	0.66	113.8071 (ppm)	6689.7952
11/2/2017 03:14:46	R1710194-002S	Cd (214.439 nm)	0.0496 (ppm)	0.41	0.0496 (ppm)	1141.4053
11/2/2017 03:14:46	R1710194-002S	Co (230.786 nm)	0.5015 (ppm)	0.21	0.5015 (ppm)	5160.3523
11/2/2017 03:14:46	R1710194-002S	Cr (267.716 nm)	0.1925 (ppm)	0.48	0.1925 (ppm)	10040.3129
11/2/2017 03:14:46	R1710194-002S	Cu (327.395 nm)	0.2939 (ppm)	0.74	0.2939 (ppm)	18481.2938
11/2/2017 03:14:46	R1710194-002S	Fe (234.350 nm)	4.5057 (ppm)	0.39	4.5057 (ppm)	52415.6197
11/2/2017 03:14:46	R1710194-002S	K (766.491 nm)	24.1094 (ppm)	0.78	24.1094 (ppm)	74496.9479
11/2/2017 03:14:46	R1710194-002S	Mg (279.078 nm)	9.6986 (ppm)	0.28	9.6986 (ppm)	19562.5587
11/2/2017 03:14:46	R1710194-002S	Mn (257.610 nm)	0.6502 (ppm)	0.32	0.6502 (ppm)	210403.5746
11/2/2017 03:14:46	R1710194-002S	Mo (202.032 nm)	0.4729 (ppm)	0.32	0.4729 (ppm)	5077.0363
11/2/2017 03:14:46	R1710194-002S	Na (588.995 nm)	21.5321 (ppm)	0.82	21.5321 (ppm)	982060.2283
11/2/2017 03:14:46	R1710194-002S	Ni (230.299 nm)	0.5098 (ppm)	0.17	0.5098 (ppm)	3511.5577
11/2/2017 03:14:46	R1710194-002S	Pb (220.353 nm)	0.4994 (ppm)	0.75	0.4994 (ppm)	1120.4879
11/2/2017 03:14:46	R1710194-002S	Sb (217.582 nm)	0.5034 (ppm)	0.57	0.5034 (ppm)	722.2864
11/2/2017 03:14:46	R1710194-002S	Se (196.026 nm)	1.0532 (ppm)	0.25	1.0532 (ppm)	925.5199
11/2/2017 03:14:46	R1710194-002S	Sn (189.925 nm)	4.9753 (ppm)	0.46	4.9753 (ppm)	6339.5642
11/2/2017 03:14:46	R1710194-002S	Sr (216.596 nm)	2.2033 (ppm)	0.41	2.2033 (ppm)	32865.3637
11/2/2017 03:14:46	R1710194-002S	Ti (336.122 nm)	0.4944 (ppm)	0.45	0.4944 (ppm)	107996.8209
11/2/2017 03:14:46	R1710194-002S	Tl (351.923 nm)	1.9617 (ppm)	0.69	1.9617 (ppm)	5583.9567
11/2/2017 03:14:46	R1710194-002S	V (292.401 nm)	0.5079 (ppm)	0.53	0.5079 (ppm)	18393.8700
11/2/2017 03:14:46	R1710194-002S	Y (360.074 nm)	0.97 (Ratio)	0.79	0.97 (Ratio)	910219.17
11/2/2017 03:14:46	R1710194-002S	Y_R (360.074 nm)	0.97 (Ratio)	0.78	0.97 (Ratio)	908919.14
11/2/2017 03:14:46	R1710194-002S	Zn (213.857 nm)	1.0016 (ppm)	0.43	1.0016 (ppm)	29070.1816
11/2/2017 03:18:06	R1710194-002SD	Ag (328.068 nm)	0.0498 (ppm)	0.16	0.0498 (ppm)	3534.4542
11/2/2017 03:18:06	R1710194-002SD	Al (394.401 nm)	1.9923 (ppm)	0.59	1.9923 (ppm)	26687.5335
11/2/2017 03:18:06	R1710194-002SD	As (188.980 nm)	0.0447 (ppm)	7.66	0.0447 (ppm)	38.4432
11/2/2017 03:18:06	R1710194-002SD	B (249.772 nm)	1.0023 (ppm)	0.37	1.0023 (ppm)	28812.6005
11/2/2017 03:18:06	R1710194-002SD	Ba (230.424 nm)	2.0479 (ppm)	0.17	2.0479 (ppm)	71677.8330
11/2/2017 03:18:06	R1710194-002SD	Be (313.107 nm)	0.0495 (ppm)	0.30	0.0495 (ppm)	74617.5056
11/2/2017 03:18:06	R1710194-002SD	Ca (227.547 nm)	110.9197 o (ppm)	0.64	110.9197 (ppm)	6520.2258
11/2/2017 03:18:06	R1710194-002SD	Cd (214.439 nm)	0.0491 (ppm)	1.10	0.0491 (ppm)	1128.3764
11/2/2017 03:18:06	R1710194-002SD	Co (230.786 nm)	0.4940 (ppm)	0.24	0.4940 (ppm)	5082.8364
11/2/2017 03:18:06	R1710194-002SD	Cr (267.716 nm)	0.1898 (ppm)	0.38	0.1898 (ppm)	9899.4124
11/2/2017 03:18:06	R1710194-002SD	Cu (327.395 nm)	0.2898 (ppm)	0.77	0.2898 (ppm)	18225.6586
11/2/2017 03:18:06	R1710194-002SD	Fe (234.350 nm)	4.4006 (ppm)	0.28	4.4006 (ppm)	51194.6732
11/2/2017 03:18:06	R1710194-002SD	K (766.491 nm)	23.7947 (ppm)	0.63	23.7947 (ppm)	73525.3377
11/2/2017 03:18:06	R1710194-002SD	Mg (279.078 nm)	9.4741 (ppm)	0.26	9.4741 (ppm)	19109.7187
11/2/2017 03:18:06	R1710194-002SD	Mn (257.610 nm)	0.6393 (ppm)	0.26	0.6393 (ppm)	206860.8340
11/2/2017 03:18:06	R1710194-002SD	Mo (202.032 nm)	0.4670 (ppm)	0.20	0.4670 (ppm)	5013.7315
11/2/2017 03:18:06	R1710194-002SD	Na (588.995 nm)	21.1896 (ppm)	0.76	21.1896 (ppm)	966343.5000
11/2/2017 03:18:06	R1710194-002SD	Ni (230.299 nm)	0.5030 (ppm)	0.30	0.5030 (ppm)	3464.6270
11/2/2017 03:18:06	R1710194-002SD	Pb (220.353 nm)	0.4936 (ppm)	0.22	0.4936 (ppm)	1107.3968
11/2/2017 03:18:06	R1710194-002SD	Sb (217.582 nm)	0.4961 (ppm)	0.70	0.4961 (ppm)	711.9095
11/2/2017 03:18:06	R1710194-002SD	Se (196.026 nm)	1.0388 (ppm)	0.53	1.0388 (ppm)	912.9133
11/2/2017 03:18:06	R1710194-002SD	Sn (189.925 nm)	4.8962 (ppm)	0.31	4.8962 (ppm)	6238.7025

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:18:06	R1710194-002SD	Sr (216.596 nm)	2.1748 (ppm)	0.36	2.1748 (ppm)	32441.5787
11/2/2017 03:18:06	R1710194-002SD	Ti (336.122 nm)	0.4876 (ppm)	0.44	0.4876 (ppm)	106502.5911
11/2/2017 03:18:06	R1710194-002SD	Tl (351.923 nm)	1.9317 (ppm)	0.62	1.9317 (ppm)	5498.7244
11/2/2017 03:18:06	R1710194-002SD	V (292.401 nm)	0.5011 (ppm)	0.38	0.5011 (ppm)	18148.1564
11/2/2017 03:18:06	R1710194-002SD	Y (360.074 nm)	0.98 (Ratio)	0.79	0.98 (Ratio)	914882.40
11/2/2017 03:18:06	R1710194-002SD	Y_R (360.074 nm)	0.98 (Ratio)	0.79	0.98 (Ratio)	913554.02
11/2/2017 03:18:06	R1710194-002SD	Zn (213.857 nm)	0.9823 (ppm)	0.35	0.9823 (ppm)	28511.2596
11/2/2017 03:21:27	R1710194-002A	Ag (328.068 nm)	0.0472 (ppm)	0.30	0.0472 (ppm)	3341.4869
11/2/2017 03:21:27	R1710194-002A	Al (394.401 nm)	1.9336 (ppm)	0.50	1.9336 (ppm)	25903.0296
11/2/2017 03:21:27	R1710194-002A	As (188.980 nm)	0.0388 (ppm)	2.24	0.0388 (ppm)	32.9816
11/2/2017 03:21:27	R1710194-002A	B (249.772 nm)	1.1357 (ppm)	0.43	1.1357 (ppm)	32637.7292
11/2/2017 03:21:27	R1710194-002A	Ba (230.424 nm)	1.9541 (ppm)	0.36	1.9541 (ppm)	68397.3945
11/2/2017 03:21:27	R1710194-002A	Be (313.107 nm)	0.0473 (ppm)	0.25	0.0473 (ppm)	71296.8558
11/2/2017 03:21:27	R1710194-002A	Ca (227.547 nm)	108.1079 o (ppm)	0.61	108.1079 (ppm)	6355.0947
11/2/2017 03:21:27	R1710194-002A	Cd (214.439 nm)	0.0469 (ppm)	0.39	0.0469 (ppm)	1078.7603
11/2/2017 03:21:27	R1710194-002A	Co (230.786 nm)	0.4721 (ppm)	0.29	0.4721 (ppm)	4857.3705
11/2/2017 03:21:27	R1710194-002A	Cr (267.716 nm)	0.1814 (ppm)	0.12	0.1814 (ppm)	9461.2390
11/2/2017 03:21:27	R1710194-002A	Cu (327.395 nm)	0.2776 (ppm)	0.10	0.2776 (ppm)	17454.5934
11/2/2017 03:21:27	R1710194-002A	Fe (234.350 nm)	4.2725 (ppm)	0.17	4.2725 (ppm)	49706.4411
11/2/2017 03:21:27	R1710194-002A	K (766.491 nm)	22.7841 (ppm)	0.63	22.7841 (ppm)	70404.8827
11/2/2017 03:21:27	R1710194-002A	Mg (279.078 nm)	9.2025 (ppm)	0.20	9.2025 (ppm)	18561.5494
11/2/2017 03:21:27	R1710194-002A	Mn (257.610 nm)	0.6298 (ppm)	0.75	0.6298 (ppm)	203799.9345
11/2/2017 03:21:27	R1710194-002A	Mo (202.032 nm)	0.4525 (ppm)	0.14	0.4525 (ppm)	4858.8267
11/2/2017 03:21:27	R1710194-002A	Na (588.995 nm)	20.4623 (ppm)	0.52	20.4623 (ppm)	932969.3954
11/2/2017 03:21:27	R1710194-002A	Ni (230.299 nm)	0.4803 (ppm)	0.28	0.4803 (ppm)	3306.9406
11/2/2017 03:21:27	R1710194-002A	Pb (220.353 nm)	0.4714 (ppm)	0.25	0.4714 (ppm)	1057.8022
11/2/2017 03:21:27	R1710194-002A	Sb (217.582 nm)	0.4782 (ppm)	0.59	0.4782 (ppm)	686.2822
11/2/2017 03:21:27	R1710194-002A	Se (196.026 nm)	1.0570 (ppm)	0.26	1.0570 (ppm)	928.8804
11/2/2017 03:21:27	R1710194-002A	Sn (189.925 nm)	4.6956 (ppm)	0.30	4.6956 (ppm)	5983.1431
11/2/2017 03:21:27	R1710194-002A	Sr (216.596 nm)	2.1519 (ppm)	0.14	2.1519 (ppm)	32099.3626
11/2/2017 03:21:27	R1710194-002A	Ti (336.122 nm)	0.4724 (ppm)	0.30	0.4724 (ppm)	103167.7478
11/2/2017 03:21:27	R1710194-002A	Tl (351.923 nm)	1.8406 (ppm)	0.25	1.8406 (ppm)	5240.1837
11/2/2017 03:21:27	R1710194-002A	V (292.401 nm)	0.4790 (ppm)	0.31	0.4790 (ppm)	17351.4486
11/2/2017 03:21:27	R1710194-002A	Y (360.074 nm)	0.98 (Ratio)	0.67	0.98 (Ratio)	918722.26
11/2/2017 03:21:27	R1710194-002A	Y_R (360.074 nm)	0.98 (Ratio)	0.66	0.98 (Ratio)	917223.36
11/2/2017 03:21:27	R1710194-002A	Zn (213.857 nm)	0.9526 (ppm)	0.29	0.9526 (ppm)	27648.4198
11/2/2017 03:24:47	R1710194-002L	Ag (328.068 nm)	0.0003 (ppm)	20.50	0.0003 (ppm)	-105.2029
11/2/2017 03:24:47	R1710194-002L	Al (394.401 nm)	0.0178 (ppm)	0.63	0.0178 (ppm)	321.1912
11/2/2017 03:24:47	R1710194-002L	As (188.980 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	-2.3622
11/2/2017 03:24:47	R1710194-002L	B (249.772 nm)	0.0064 (ppm)	4.99	0.0064 (ppm)	274.8680
11/2/2017 03:24:47	R1710194-002L	Ba (230.424 nm)	0.0126 (ppm)	2.26	0.0126 (ppm)	449.8070
11/2/2017 03:24:47	R1710194-002L	Be (313.107 nm)	0.0000 (ppm)	99.39	0.0000 (ppm)	-496.9841
11/2/2017 03:24:47	R1710194-002L	Ca (227.547 nm)	20.2935 (ppm)	0.55	20.2935 (ppm)	1197.9602
11/2/2017 03:24:47	R1710194-002L	Cd (214.439 nm)	0.0002 (ppm)	43.04	0.0002 (ppm)	16.5934
11/2/2017 03:24:47	R1710194-002L	Co (230.786 nm)	0.0005 (ppm)	30.16	0.0005 (ppm)	3.9400
11/2/2017 03:24:47	R1710194-002L	Cr (267.716 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-2.5759
11/2/2017 03:24:47	R1710194-002L	Cu (327.395 nm)	0.0084 (ppm)	0.82	0.0084 (ppm)	546.4395
11/2/2017 03:24:47	R1710194-002L	Fe (234.350 nm)	0.6937 (ppm)	0.33	0.6937 (ppm)	8131.5399
11/2/2017 03:24:47	R1710194-002L	K (766.491 nm)	0.6459 (ppm)	3.12	0.6459 (ppm)	2051.8687
11/2/2017 03:24:47	R1710194-002L	Mg (279.078 nm)	1.4810 (ppm)	0.28	1.4810 (ppm)	2981.2890
11/2/2017 03:24:47	R1710194-002L	Mn (257.610 nm)	0.0328 (ppm)	0.88	0.0328 (ppm)	10630.4412

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:24:47	R1710194-002L	Mo (202.032 nm)	0.0005 (ppm)	41.69	0.0005 (ppm)	21.7092
11/2/2017 03:24:47	R1710194-002L	Na (588.995 nm)	0.1160 (ppm)	0.82	0.1160 (ppm)	-656.4404
11/2/2017 03:24:47	R1710194-002L	Ni (230.299 nm)	0.0037 (ppm)	4.11	0.0037 (ppm)	-0.1498
11/2/2017 03:24:47	R1710194-002L	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.1346
11/2/2017 03:24:47	R1710194-002L	Sb (217.582 nm)	-0.0016 u (ppm)	> 100.00	-0.0016 (ppm)	1.9027
11/2/2017 03:24:47	R1710194-002L	Se (196.026 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	6.3626
11/2/2017 03:24:47	R1710194-002L	Sn (189.925 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	1.0267
11/2/2017 03:24:47	R1710194-002L	Sr (216.596 nm)	0.0516 (ppm)	0.99	0.0516 (ppm)	768.5304
11/2/2017 03:24:47	R1710194-002L	Ti (336.122 nm)	0.0005 (ppm)	17.83	0.0005 (ppm)	-318.1685
11/2/2017 03:24:47	R1710194-002L	Tl (351.923 nm)	-0.0044 u (ppm)	21.18	-0.0044 (ppm)	2.2197
11/2/2017 03:24:47	R1710194-002L	V (292.401 nm)	0.0018 (ppm)	8.46	0.0018 (ppm)	174.1375
11/2/2017 03:24:47	R1710194-002L	Y (360.074 nm)	1.03 (Ratio)	0.86	1.03 (Ratio)	961700.59
11/2/2017 03:24:47	R1710194-002L	Y_R (360.074 nm)	1.03 (Ratio)	0.86	1.03 (Ratio)	960012.63
11/2/2017 03:24:47	R1710194-002L	Zn (213.857 nm)	0.0957 (ppm)	0.22	0.0957 (ppm)	2750.9119
11/2/2017 03:28:08	R1710194-003	Ag (328.068 nm)	0.0003 (ppm)	11.68	0.0003 (ppm)	-100.7061
11/2/2017 03:28:08	R1710194-003	Al (394.401 nm)	0.1535 (ppm)	0.61	0.1535 (ppm)	2133.1466
11/2/2017 03:28:08	R1710194-003	As (188.980 nm)	0.0069 (ppm)	28.10	0.0069 (ppm)	3.4953
11/2/2017 03:28:08	R1710194-003	B (249.772 nm)	0.0494 (ppm)	0.19	0.0494 (ppm)	1506.5241
11/2/2017 03:28:08	R1710194-003	Ba (230.424 nm)	0.0470 (ppm)	0.46	0.0470 (ppm)	1651.9569
11/2/2017 03:28:08	R1710194-003	Be (313.107 nm)	0.0000 (ppm)	7.01	0.0000 (ppm)	-462.8399
11/2/2017 03:28:08	R1710194-003	Ca (227.547 nm)	53.5627 (ppm)	0.62	53.5627 (ppm)	3151.7798
11/2/2017 03:28:08	R1710194-003	Cd (214.439 nm)	0.0004 (ppm)	23.86	0.0004 (ppm)	22.0404
11/2/2017 03:28:08	R1710194-003	Co (230.786 nm)	-0.0010 u (ppm)	29.58	-0.0010 (ppm)	-11.4246
11/2/2017 03:28:08	R1710194-003	Cr (267.716 nm)	0.0002 (ppm)	56.08	0.0002 (ppm)	10.6601
11/2/2017 03:28:08	R1710194-003	Cu (327.395 nm)	0.0001 (ppm)	87.73	0.0001 (ppm)	27.8329
11/2/2017 03:28:08	R1710194-003	Fe (234.350 nm)	54.3570 o (ppm)	0.30	54.3570 (ppm)	631543.0697
11/2/2017 03:28:08	R1710194-003	K (766.491 nm)	2.6223 (ppm)	0.66	2.6223 (ppm)	8154.1231
11/2/2017 03:28:08	R1710194-003	Mg (279.078 nm)	9.8192 (ppm)	0.38	9.8192 (ppm)	19805.9079
11/2/2017 03:28:08	R1710194-003	Mn (257.610 nm)	2.0314 o (ppm)	0.33	2.0314 (ppm)	657236.1929
11/2/2017 03:28:08	R1710194-003	Mo (202.032 nm)	-0.0007 u (ppm)	18.54	-0.0007 (ppm)	9.8104
11/2/2017 03:28:08	R1710194-003	Na (588.995 nm)	1.3191 (ppm)	0.63	1.3191 (ppm)	54551.9492
11/2/2017 03:28:08	R1710194-003	Ni (230.299 nm)	-0.0038 u (ppm)	3.60	-0.0038 (ppm)	-52.7535
11/2/2017 03:28:08	R1710194-003	Pb (220.353 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	4.8248
11/2/2017 03:28:08	R1710194-003	Sb (217.582 nm)	-0.0045 u (ppm)	23.73	-0.0045 (ppm)	-2.3137
11/2/2017 03:28:08	R1710194-003	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	6.7456
11/2/2017 03:28:08	R1710194-003	Sn (189.925 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	-0.5568
11/2/2017 03:28:08	R1710194-003	Sr (216.596 nm)	0.0915 (ppm)	0.58	0.0915 (ppm)	1363.4028
11/2/2017 03:28:08	R1710194-003	Ti (336.122 nm)	0.0047 (ppm)	1.24	0.0047 (ppm)	614.8543
11/2/2017 03:28:08	R1710194-003	Tl (351.923 nm)	-0.0052 u (ppm)	17.22	-0.0052 (ppm)	-0.0357
11/2/2017 03:28:08	R1710194-003	V (292.401 nm)	0.0058 (ppm)	1.67	0.0058 (ppm)	317.2632
11/2/2017 03:28:08	R1710194-003	Y (360.074 nm)	1.01 (Ratio)	0.68	1.01 (Ratio)	943114.99
11/2/2017 03:28:08	R1710194-003	Y_R (360.074 nm)	1.01 (Ratio)	0.69	1.01 (Ratio)	941541.19
11/2/2017 03:28:08	R1710194-003	Zn (213.857 nm)	0.0096 (ppm)	0.24	0.0096 (ppm)	247.8821
11/2/2017 03:31:27	Continuing Calibration Verification1	Ag (328.068 nm)	0.4807 (ppm)	0.33	0.4807 (ppm)	35184.9235
11/2/2017 03:31:27	Continuing Calibration Verification1	Al (394.401 nm)	9.4327 (ppm)	0.39	9.4327 (ppm)	126042.6183
11/2/2017 03:31:27	Continuing Calibration Verification1	As (188.980 nm)	0.9357 (ppm)	0.32	0.9357 (ppm)	863.1651
11/2/2017 03:31:27	Continuing Calibration Verification1	B (249.772 nm)	2.3667 (ppm)	0.24	2.3667 (ppm)	67912.9019
11/2/2017 03:31:27	Continuing Calibration Verification1	Ba (230.424 nm)	9.9695 (ppm)	0.25	9.9695 (ppm)	348915.2912
11/2/2017 03:31:27	Continuing Calibration Verification1	Be (313.107 nm)	0.2487 (ppm)	0.35	0.2487 (ppm)	376658.2371
11/2/2017 03:31:27	Continuing Calibration Verification1	Ca (227.547 nm)	23.9548 (ppm)	0.54	23.9548 (ppm)	1412.9779
11/2/2017 03:31:27	Continuing Calibration Verification1	Cd (214.439 nm)	0.4820 (ppm)	0.27	0.4820 (ppm)	10973.1246

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:31:27	Continuing Calibration Verification1	Co (230.786 nm)	2.5133 (ppm)	0.21	2.5133 (ppm)	25865.3244
11/2/2017 03:31:27	Continuing Calibration Verification1	Cr (267.716 nm)	0.4850 (ppm)	0.20	0.4850 (ppm)	25292.9768
11/2/2017 03:31:27	Continuing Calibration Verification1	Cu (327.395 nm)	1.2020 (ppm)	0.42	1.2020 (ppm)	75517.6474
11/2/2017 03:31:27	Continuing Calibration Verification1	Fe (234.350 nm)	4.6997 (ppm)	0.26	4.6997 (ppm)	54669.0454
11/2/2017 03:31:27	Continuing Calibration Verification1	K (766.491 nm)	24.5314 (ppm)	0.53	24.5314 (ppm)	75799.7806
11/2/2017 03:31:27	Continuing Calibration Verification1	Mg (279.078 nm)	24.1057 (ppm)	0.25	24.1057 (ppm)	48632.9452
11/2/2017 03:31:27	Continuing Calibration Verification1	Mn (257.610 nm)	0.7334 (ppm)	0.27	0.7334 (ppm)	237302.9293
11/2/2017 03:31:27	Continuing Calibration Verification1	Mo (202.032 nm)	2.3440 (ppm)	0.25	2.3440 (ppm)	25097.6234
11/2/2017 03:31:27	Continuing Calibration Verification1	Na (588.995 nm)	24.7805 (ppm)	0.60	24.7805 (ppm)	1131119.8423
11/2/2017 03:31:27	Continuing Calibration Verification1	Ni (230.299 nm)	1.9728 (ppm)	0.20	1.9728 (ppm)	13663.7034
11/2/2017 03:31:27	Continuing Calibration Verification1	Pb (220.353 nm)	0.4842 (ppm)	0.56	0.4842 (ppm)	1086.4670
11/2/2017 03:31:27	Continuing Calibration Verification1	Sb (217.582 nm)	4.7691 (ppm)	0.37	4.7691 (ppm)	6807.6693
11/2/2017 03:31:27	Continuing Calibration Verification1	Se (196.026 nm)	0.4713 (ppm)	0.55	0.4713 (ppm)	417.1985
11/2/2017 03:31:27	Continuing Calibration Verification1	Sn (189.925 nm)	4.8950 (ppm)	0.54	4.8950 (ppm)	6237.1788
11/2/2017 03:31:27	Continuing Calibration Verification1	Sr (216.596 nm)	2.4194 (ppm)	0.29	2.4194 (ppm)	36089.5777
11/2/2017 03:31:27	Continuing Calibration Verification1	Ti (336.122 nm)	2.4519 (ppm)	0.61	2.4519 (ppm)	537288.8461
11/2/2017 03:31:27	Continuing Calibration Verification1	Tl (351.923 nm)	0.9728 (ppm)	0.18	0.9728 (ppm)	2776.4696
11/2/2017 03:31:27	Continuing Calibration Verification1	V (292.401 nm)	2.4537 (ppm)	0.27	2.4537 (ppm)	88436.8316
11/2/2017 03:31:27	Continuing Calibration Verification1	Y (360.074 nm)	0.98 (Ratio)	0.71	0.98 (Ratio)	920985.31
11/2/2017 03:31:27	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98 (Ratio)	0.71	0.98 (Ratio)	919333.24
11/2/2017 03:31:27	Continuing Calibration Verification1	Zn (213.857 nm)	0.9691 (ppm)	0.27	0.9691 (ppm)	28126.8133
11/2/2017 03:34:46	Continuing Calibration Blank1	Ag (328.068 nm)	0.0003 (ppm)	43.68	0.0003 (ppm)	-106.5289
11/2/2017 03:34:46	Continuing Calibration Blank1	Al (394.401 nm)	0.0004 (ppm)	89.24	0.0004 (ppm)	88.8019
11/2/2017 03:34:46	Continuing Calibration Blank1	As (188.980 nm)	0.0011 u (ppm)	> 100.00	0.0011 (ppm)	-1.9196
11/2/2017 03:34:46	Continuing Calibration Blank1	B (249.772 nm)	0.0011 (ppm)	68.69	0.0011 (ppm)	121.4584
11/2/2017 03:34:46	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005 (ppm)	23.38	0.0005 (ppm)	25.7348
11/2/2017 03:34:46	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	11.05	0.0000 (ppm)	-472.9106
11/2/2017 03:34:46	Continuing Calibration Blank1	Ca (227.547 nm)	-0.0205 u (ppm)	95.65	-0.0205 (ppm)	4.9682
11/2/2017 03:34:46	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	20.83	0.0001 (ppm)	14.6010
11/2/2017 03:34:46	Continuing Calibration Blank1	Co (230.786 nm)	-0.0003 u (ppm)	96.67	-0.0003 (ppm)	-4.1006
11/2/2017 03:34:46	Continuing Calibration Blank1	Cr (267.716 nm)	0.0001 (ppm)	25.85	0.0001 (ppm)	5.2769
11/2/2017 03:34:46	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	24.2697
11/2/2017 03:34:46	Continuing Calibration Blank1	Fe (234.350 nm)	0.0007 (ppm)	10.36	0.0007 (ppm)	81.3149
11/2/2017 03:34:46	Continuing Calibration Blank1	K (766.491 nm)	0.0200 (ppm)	28.66	0.0200 (ppm)	119.3016
11/2/2017 03:34:46	Continuing Calibration Blank1	Mg (279.078 nm)	0.0027 (ppm)	16.99	0.0027 (ppm)	-1.5834
11/2/2017 03:34:46	Continuing Calibration Blank1	Mn (257.610 nm)	0.0005 (ppm)	24.34	0.0005 (ppm)	207.7294
11/2/2017 03:34:46	Continuing Calibration Blank1	Mo (202.032 nm)	0.0018 (ppm)	7.66	0.0018 (ppm)	35.9711
11/2/2017 03:34:46	Continuing Calibration Blank1	Na (588.995 nm)	0.0078 (ppm)	24.63	0.0078 (ppm)	-5623.0648
11/2/2017 03:34:46	Continuing Calibration Blank1	Ni (230.299 nm)	0.0008 (ppm)	20.45	0.0008 (ppm)	-20.2099
11/2/2017 03:34:46	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0005 u (ppm)	26.61	-0.0005 (ppm)	4.4695
11/2/2017 03:34:46	Continuing Calibration Blank1	Sb (217.582 nm)	-0.0014 u (ppm)	58.69	-0.0014 (ppm)	2.1885
11/2/2017 03:34:46	Continuing Calibration Blank1	Se (196.026 nm)	-0.0026 u (ppm)	> 100.00	-0.0026 (ppm)	3.2233
11/2/2017 03:34:46	Continuing Calibration Blank1	Sn (189.925 nm)	0.0012 (ppm)	91.83	0.0012 (ppm)	1.3822
11/2/2017 03:34:46	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.2897
11/2/2017 03:34:46	Continuing Calibration Blank1	Ti (336.122 nm)	0.0009 (ppm)	7.87	0.0009 (ppm)	-230.9162
11/2/2017 03:34:46	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0013 u (ppm)	22.53	-0.0013 (ppm)	10.9832
11/2/2017 03:34:46	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	109.0589
11/2/2017 03:34:46	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.75	1.03 (Ratio)	968661.06
11/2/2017 03:34:46	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.75	1.03 (Ratio)	966645.77
11/2/2017 03:34:46	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	16.60	0.0003 (ppm)	-22.8963
11/2/2017 03:38:06	R1710194-004	Ag (328.068 nm)	0.0002 (ppm)	11.54	0.0002 (ppm)	-107.7845

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:38:06	R1710194-004	Al (394.401 nm)	0.0259 (ppm)	0.15	0.0259 (ppm)	428.8581
11/2/2017 03:38:06	R1710194-004	As (188.980 nm)	0.0185 (ppm)	6.76	0.0185 (ppm)	14.2462
11/2/2017 03:38:06	R1710194-004	B (249.772 nm)	0.1022 (ppm)	0.57	0.1022 (ppm)	3018.8236
11/2/2017 03:38:06	R1710194-004	Ba (230.424 nm)	0.1180 (ppm)	0.66	0.1180 (ppm)	4137.0870
11/2/2017 03:38:06	R1710194-004	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-504.1594
11/2/2017 03:38:06	R1710194-004	Ca (227.547 nm)	97.3218 o (ppm)	0.58	97.3218 (ppm)	5721.6513
11/2/2017 03:38:06	R1710194-004	Cd (214.439 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	13.9377
11/2/2017 03:38:06	R1710194-004	Co (230.786 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	3.8250
11/2/2017 03:38:06	R1710194-004	Cr (267.716 nm)	-0.0004 u (ppm)	14.03	-0.0004 (ppm)	-20.1543
11/2/2017 03:38:06	R1710194-004	Cu (327.395 nm)	0.0014 (ppm)	6.33	0.0014 (ppm)	112.1408
11/2/2017 03:38:06	R1710194-004	Fe (234.350 nm)	16.0120 o (ppm)	0.23	16.0120 (ppm)	186085.2896
11/2/2017 03:38:06	R1710194-004	K (766.491 nm)	16.2262 (ppm)	0.74	16.2262 (ppm)	50157.0489
11/2/2017 03:38:06	R1710194-004	Mg (279.078 nm)	11.7797 (ppm)	0.34	11.7797 (ppm)	23761.8059
11/2/2017 03:38:06	R1710194-004	Mn (257.610 nm)	0.7429 (ppm)	0.23	0.7429 (ppm)	240381.3854
11/2/2017 03:38:06	R1710194-004	Mo (202.032 nm)	-0.0005 u (ppm)	82.13	-0.0005 (ppm)	11.2189
11/2/2017 03:38:06	R1710194-004	Na (588.995 nm)	5.2077 (ppm)	0.66	5.2077 (ppm)	232983.7084
11/2/2017 03:38:06	R1710194-004	Ni (230.299 nm)	-0.0039 u (ppm)	52.74	-0.0039 (ppm)	-53.0864
11/2/2017 03:38:06	R1710194-004	Pb (220.353 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	5.2667
11/2/2017 03:38:06	R1710194-004	Sb (217.582 nm)	-0.0003 u (ppm)	> 100.00	-0.0003 (ppm)	3.7720
11/2/2017 03:38:06	R1710194-004	Se (196.026 nm)	-0.0007 u (ppm)	85.97	-0.0007 (ppm)	4.8920
11/2/2017 03:38:06	R1710194-004	Sn (189.925 nm)	-0.0021 u (ppm)	63.35	-0.0021 (ppm)	-2.7972
11/2/2017 03:38:06	R1710194-004	Sr (216.596 nm)	0.2551 (ppm)	0.33	0.2551 (ppm)	3804.3197
11/2/2017 03:38:06	R1710194-004	Ti (336.122 nm)	0.0012 (ppm)	4.42	0.0012 (ppm)	-148.4829
11/2/2017 03:38:06	R1710194-004	Tl (351.923 nm)	-0.0021 u (ppm)	44.32	-0.0021 (ppm)	8.8043
11/2/2017 03:38:06	R1710194-004	V (292.401 nm)	0.0017 (ppm)	6.66	0.0017 (ppm)	171.0564
11/2/2017 03:38:06	R1710194-004	Y (360.074 nm)	0.99 (Ratio)	0.70	0.99 (Ratio)	928788.21
11/2/2017 03:38:06	R1710194-004	Y_R (360.074 nm)	0.99 (Ratio)	0.70	0.99 (Ratio)	927103.32
11/2/2017 03:38:06	R1710194-004	Zn (213.857 nm)	0.0178 (ppm)	2.72	0.0178 (ppm)	485.6310
11/2/2017 03:41:27	R1710194-005	Ag (328.068 nm)	0.0004 (ppm)	20.54	0.0004 (ppm)	-94.9068
11/2/2017 03:41:27	R1710194-005	Al (394.401 nm)	0.1547 (ppm)	0.54	0.1547 (ppm)	2149.2509
11/2/2017 03:41:27	R1710194-005	As (188.980 nm)	0.0065 (ppm)	57.27	0.0065 (ppm)	3.1366
11/2/2017 03:41:27	R1710194-005	B (249.772 nm)	0.0500 (ppm)	0.64	0.0500 (ppm)	1523.1383
11/2/2017 03:41:27	R1710194-005	Ba (230.424 nm)	0.0471 (ppm)	0.14	0.0471 (ppm)	1657.2938
11/2/2017 03:41:27	R1710194-005	Be (313.107 nm)	0.0000 (ppm)	29.79	0.0000 (ppm)	-472.1749
11/2/2017 03:41:27	R1710194-005	Ca (227.547 nm)	54.1074 (ppm)	0.77	54.1074 (ppm)	3183.7692
11/2/2017 03:41:27	R1710194-005	Cd (214.439 nm)	0.0004 (ppm)	37.90	0.0004 (ppm)	20.7381
11/2/2017 03:41:27	R1710194-005	Co (230.786 nm)	-0.0012 u (ppm)	24.67	-0.0012 (ppm)	-13.4779
11/2/2017 03:41:27	R1710194-005	Cr (267.716 nm)	0.0001 (ppm)	17.55	0.0001 (ppm)	7.0450
11/2/2017 03:41:27	R1710194-005	Cu (327.395 nm)	0.0001 (ppm)	> 100.00	0.0001 (ppm)	27.1073
11/2/2017 03:41:27	R1710194-005	Fe (234.350 nm)	54.8251 o (ppm)	0.35	54.8251 (ppm)	636980.7623
11/2/2017 03:41:27	R1710194-005	K (766.491 nm)	2.6746 (ppm)	0.61	2.6746 (ppm)	8315.3584
11/2/2017 03:41:27	R1710194-005	Mg (279.078 nm)	9.9124 (ppm)	0.46	9.9124 (ppm)	19993.9386
11/2/2017 03:41:27	R1710194-005	Mn (257.610 nm)	2.0542 o (ppm)	0.33	2.0542 (ppm)	664637.0985
11/2/2017 03:41:27	R1710194-005	Mo (202.032 nm)	-0.0007 u (ppm)	35.50	-0.0007 (ppm)	9.7172
11/2/2017 03:41:27	R1710194-005	Na (588.995 nm)	1.3325 (ppm)	0.80	1.3325 (ppm)	55163.6870
11/2/2017 03:41:27	R1710194-005	Ni (230.299 nm)	-0.0032 u (ppm)	13.94	-0.0032 (ppm)	-48.4775
11/2/2017 03:41:27	R1710194-005	Pb (220.353 nm)	-0.0016 u (ppm)	4.26	-0.0016 (ppm)	2.0314
11/2/2017 03:41:27	R1710194-005	Sb (217.582 nm)	-0.0037 u (ppm)	16.70	-0.0037 (ppm)	-1.1071
11/2/2017 03:41:27	R1710194-005	Se (196.026 nm)	0.0014 u (ppm)	> 100.00	0.0014 (ppm)	6.7698
11/2/2017 03:41:27	R1710194-005	Sn (189.925 nm)	-0.0016 u (ppm)	64.60	-0.0016 (ppm)	-2.1484
11/2/2017 03:41:27	R1710194-005	Sr (216.596 nm)	0.0919 (ppm)	0.11	0.0919 (ppm)	1369.0149

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:41:27	R1710194-005	Ti (336.122 nm)	0.0048 (ppm)	0.58	0.0048 (ppm)	628.6881
11/2/2017 03:41:27	R1710194-005	Tl (351.923 nm)	-0.0059 u (ppm)	26.29	-0.0059 (ppm)	-2.0951
11/2/2017 03:41:27	R1710194-005	V (292.401 nm)	0.0058 (ppm)	2.50	0.0058 (ppm)	317.2493
11/2/2017 03:41:27	R1710194-005	Y (360.074 nm)	1.00 (Ratio)	0.74	1.00 (Ratio)	940909.07
11/2/2017 03:41:27	R1710194-005	Y_R (360.074 nm)	1.00 (Ratio)	0.73	1.00 (Ratio)	938926.95
11/2/2017 03:41:27	R1710194-005	Zn (213.857 nm)	0.0075 (ppm)	0.41	0.0075 (ppm)	187.4458
11/2/2017 03:44:47	R1710194-007	Ag (328.068 nm)	0.0002 (ppm)	28.58	0.0002 (ppm)	-108.3735
11/2/2017 03:44:47	R1710194-007	Al (394.401 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	82.3897
11/2/2017 03:44:47	R1710194-007	As (188.980 nm)	0.0009 u (ppm)	> 100.00	0.0009 (ppm)	-2.0562
11/2/2017 03:44:47	R1710194-007	B (249.772 nm)	-0.0009 u (ppm)	14.63	-0.0009 (ppm)	63.9354
11/2/2017 03:44:47	R1710194-007	Ba (230.424 nm)	-0.0002 u (ppm)	6.97	-0.0002 (ppm)	0.8584
11/2/2017 03:44:47	R1710194-007	Be (313.107 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-506.7709
11/2/2017 03:44:47	R1710194-007	Ca (227.547 nm)	-0.0172 u (ppm)	> 100.00	-0.0172 (ppm)	5.1617
11/2/2017 03:44:47	R1710194-007	Cd (214.439 nm)	-0.0001 u (ppm)	33.21	-0.0001 (ppm)	9.2544
11/2/2017 03:44:47	R1710194-007	Co (230.786 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-2.8754
11/2/2017 03:44:47	R1710194-007	Cr (267.716 nm)	0.0000 u (ppm)	22.20	0.0000 (ppm)	-2.7520
11/2/2017 03:44:47	R1710194-007	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	21.3032
11/2/2017 03:44:47	R1710194-007	Fe (234.350 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	70.4601
11/2/2017 03:44:47	R1710194-007	K (766.491 nm)	-0.0035 u (ppm)	55.98	-0.0035 (ppm)	46.7951
11/2/2017 03:44:47	R1710194-007	Mg (279.078 nm)	0.0020 (ppm)	58.97	0.0020 (ppm)	-3.0160
11/2/2017 03:44:47	R1710194-007	Mn (257.610 nm)	0.0016 (ppm)	33.60	0.0016 (ppm)	555.4556
11/2/2017 03:44:47	R1710194-007	Mo (202.032 nm)	-0.0008 u (ppm)	22.97	-0.0008 (ppm)	7.8649
11/2/2017 03:44:47	R1710194-007	Na (588.995 nm)	0.0377 (ppm)	1.50	0.0377 (ppm)	-4250.6683
11/2/2017 03:44:47	R1710194-007	Ni (230.299 nm)	0.0013 (ppm)	70.21	0.0013 (ppm)	-16.8355
11/2/2017 03:44:47	R1710194-007	Pb (220.353 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	5.7460
11/2/2017 03:44:47	R1710194-007	Sb (217.582 nm)	-0.0029 u (ppm)	48.94	-0.0029 (ppm)	0.0551
11/2/2017 03:44:47	R1710194-007	Se (196.026 nm)	-0.0036 u (ppm)	72.05	-0.0036 (ppm)	2.4155
11/2/2017 03:44:47	R1710194-007	Sn (189.925 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	0.0257
11/2/2017 03:44:47	R1710194-007	Sr (216.596 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.2865
11/2/2017 03:44:47	R1710194-007	Ti (336.122 nm)	0.0004 (ppm)	18.61	0.0004 (ppm)	-328.7507
11/2/2017 03:44:47	R1710194-007	Tl (351.923 nm)	-0.0028 u (ppm)	63.82	-0.0028 (ppm)	6.7852
11/2/2017 03:44:47	R1710194-007	V (292.401 nm)	-0.0003 u (ppm)	73.32	-0.0003 (ppm)	99.3862
11/2/2017 03:44:47	R1710194-007	Y (360.074 nm)	1.05 (Ratio)	0.60	1.05 (Ratio)	979371.26
11/2/2017 03:44:47	R1710194-007	Y_R (360.074 nm)	1.04 (Ratio)	0.60	1.04 (Ratio)	977059.25
11/2/2017 03:44:47	R1710194-007	Zn (213.857 nm)	0.0013 (ppm)	6.84	0.0013 (ppm)	6.0658
11/2/2017 03:48:07	R1710208-003	Ag (328.068 nm)	0.0003 (ppm)	2.64	0.0003 (ppm)	-102.8666
11/2/2017 03:48:07	R1710208-003	Al (394.401 nm)	0.0164 (ppm)	2.33	0.0164 (ppm)	302.2016
11/2/2017 03:48:07	R1710208-003	As (188.980 nm)	0.0084 (ppm)	19.80	0.0084 (ppm)	4.8566
11/2/2017 03:48:07	R1710208-003	B (249.772 nm)	0.1507 (ppm)	0.26	0.1507 (ppm)	4408.6353
11/2/2017 03:48:07	R1710208-003	Ba (230.424 nm)	0.0246 (ppm)	0.48	0.0246 (ppm)	868.2184
11/2/2017 03:48:07	R1710208-003	Be (313.107 nm)	0.0000 (ppm)	54.72	0.0000 (ppm)	-524.5022
11/2/2017 03:48:07	R1710208-003	Ca (227.547 nm)	18.0632 (ppm)	0.71	18.0632 (ppm)	1066.9813
11/2/2017 03:48:07	R1710208-003	Cd (214.439 nm)	-0.0001 u (ppm)	32.79	-0.0001 (ppm)	9.2142
11/2/2017 03:48:07	R1710208-003	Co (230.786 nm)	-0.0005 u (ppm)	15.08	-0.0005 (ppm)	-6.8439
11/2/2017 03:48:07	R1710208-003	Cr (267.716 nm)	0.0009 (ppm)	13.63	0.0009 (ppm)	44.0666
11/2/2017 03:48:07	R1710208-003	Cu (327.395 nm)	0.0017 (ppm)	5.32	0.0017 (ppm)	130.9889
11/2/2017 03:48:07	R1710208-003	Fe (234.350 nm)	-0.0021 u (ppm)	3.88	-0.0021 (ppm)	48.4130
11/2/2017 03:48:07	R1710208-003	K (766.491 nm)	4.4061 (ppm)	0.36	4.4061 (ppm)	13661.7684
11/2/2017 03:48:07	R1710208-003	Mg (279.078 nm)	28.7993 (ppm)	0.27	28.7993 (ppm)	58103.7701
11/2/2017 03:48:07	R1710208-003	Mn (257.610 nm)	0.0021 (ppm)	25.62	0.0021 (ppm)	705.3637
11/2/2017 03:48:07	R1710208-003	Mo (202.032 nm)	0.0055 (ppm)	7.41	0.0055 (ppm)	76.1050

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:48:07	R1710208-003	Na (588.995 nm)	33.8540 (ppm)	0.63	33.8540 (ppm)	1547473.1001
11/2/2017 03:48:07	R1710208-003	Ni (230.299 nm)	-0.0109 u (ppm)	2.57	-0.0109 (ppm)	-101.5018
11/2/2017 03:48:07	R1710208-003	Pb (220.353 nm)	-0.0016 u (ppm)	30.97	-0.0016 (ppm)	2.0958
11/2/2017 03:48:07	R1710208-003	Sb (217.582 nm)	-0.0013 u (ppm)	> 100.00	-0.0013 (ppm)	2.3067
11/2/2017 03:48:07	R1710208-003	Se (196.026 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	5.1455
11/2/2017 03:48:07	R1710208-003	Sn (189.925 nm)	-0.0002 u (ppm)	> 100.00	-0.0002 (ppm)	-0.4105
11/2/2017 03:48:07	R1710208-003	Sr (216.596 nm)	0.7695 (ppm)	0.15	0.7695 (ppm)	11477.1856
11/2/2017 03:48:07	R1710208-003	Ti (336.122 nm)	0.0007 (ppm)	4.78	0.0007 (ppm)	-274.6201
11/2/2017 03:48:07	R1710208-003	Tl (351.923 nm)	-0.0021 u (ppm)	42.41	-0.0021 (ppm)	8.7469
11/2/2017 03:48:07	R1710208-003	V (292.401 nm)	0.0060 (ppm)	3.18	0.0060 (ppm)	327.0328
11/2/2017 03:48:07	R1710208-003	Y (360.074 nm)	1.00 (Ratio)	0.58	1.00 (Ratio)	933072.09
11/2/2017 03:48:07	R1710208-003	Y_R (360.074 nm)	0.99 (Ratio)	0.58	0.99 (Ratio)	931013.69
11/2/2017 03:48:07	R1710208-003	Zn (213.857 nm)	0.0014 (ppm)	3.55	0.0014 (ppm)	11.0922
11/2/2017 03:51:27	R1710208-008	Ag (328.068 nm)	0.0203 (ppm)	1.00	0.0203 (ppm)	1368.7308
11/2/2017 03:51:27	R1710208-008	Al (394.401 nm)	0.0070 (ppm)	7.57	0.0070 (ppm)	176.4907
11/2/2017 03:51:27	R1710208-008	As (188.980 nm)	0.0412 (ppm)	10.28	0.0412 (ppm)	35.2425
11/2/2017 03:51:27	R1710208-008	B (249.772 nm)	0.0417 (ppm)	0.53	0.0417 (ppm)	1284.9847
11/2/2017 03:51:27	R1710208-008	Ba (230.424 nm)	0.0430 (ppm)	0.90	0.0430 (ppm)	1512.5193
11/2/2017 03:51:27	R1710208-008	Be (313.107 nm)	0.0405 (ppm)	0.46	0.0405 (ppm)	60861.7177
11/2/2017 03:51:27	R1710208-008	Ca (227.547 nm)	-0.0048 u (ppm)	> 100.00	-0.0048 (ppm)	5.8884
11/2/2017 03:51:27	R1710208-008	Cd (214.439 nm)	0.0409 (ppm)	0.46	0.0409 (ppm)	942.6905
11/2/2017 03:51:27	R1710208-008	Co (230.786 nm)	0.0425 (ppm)	0.69	0.0425 (ppm)	436.4495
11/2/2017 03:51:27	R1710208-008	Cr (267.716 nm)	0.0409 (ppm)	0.50	0.0409 (ppm)	2130.6379
11/2/2017 03:51:27	R1710208-008	Cu (327.395 nm)	0.0403 (ppm)	0.45	0.0403 (ppm)	2553.2200
11/2/2017 03:51:27	R1710208-008	Fe (234.350 nm)	-0.0035 u (ppm)	7.00	-0.0035 (ppm)	31.8799
11/2/2017 03:51:27	R1710208-008	K (766.491 nm)	-0.0024 u (ppm)	> 100.00	-0.0024 (ppm)	50.1874
11/2/2017 03:51:27	R1710208-008	Mg (279.078 nm)	0.0442 (ppm)	2.48	0.0442 (ppm)	82.0727
11/2/2017 03:51:27	R1710208-008	Mn (257.610 nm)	0.0450 (ppm)	0.98	0.0450 (ppm)	14588.3500
11/2/2017 03:51:27	R1710208-008	Mo (202.032 nm)	-0.0009 u (ppm)	12.29	-0.0009 (ppm)	7.2490
11/2/2017 03:51:27	R1710208-008	Na (588.995 nm)	0.0266 (ppm)	2.94	0.0266 (ppm)	-4757.0997
11/2/2017 03:51:27	R1710208-008	Ni (230.299 nm)	0.0430 (ppm)	1.18	0.0430 (ppm)	272.6470
11/2/2017 03:51:27	R1710208-008	Pb (220.353 nm)	0.0411 (ppm)	3.02	0.0411 (ppm)	97.2987
11/2/2017 03:51:27	R1710208-008	Sb (217.582 nm)	-0.0028 u (ppm)	37.52	-0.0028 (ppm)	0.0995
11/2/2017 03:51:27	R1710208-008	Se (196.026 nm)	0.0368 (ppm)	6.56	0.0368 (ppm)	37.6454
11/2/2017 03:51:27	R1710208-008	Sn (189.925 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	0.7007
11/2/2017 03:51:27	R1710208-008	Sr (216.596 nm)	0.0410 (ppm)	0.63	0.0410 (ppm)	609.6860
11/2/2017 03:51:27	R1710208-008	Ti (336.122 nm)	0.0007 (ppm)	6.01	0.0007 (ppm)	-265.0601
11/2/2017 03:51:27	R1710208-008	Tl (351.923 nm)	0.0354 (ppm)	8.53	0.0354 (ppm)	115.0627
11/2/2017 03:51:27	R1710208-008	V (292.401 nm)	0.0401 (ppm)	0.50	0.0401 (ppm)	1553.6341
11/2/2017 03:51:27	R1710208-008	Y (360.074 nm)	1.04 (Ratio)	0.74	1.04 (Ratio)	977334.36
11/2/2017 03:51:27	R1710208-008	Y_R (360.074 nm)	1.04 (Ratio)	0.75	1.04 (Ratio)	975123.88
11/2/2017 03:51:27	R1710208-008	Zn (213.857 nm)	0.0417 (ppm)	0.39	0.0417 (ppm)	1181.3614
11/2/2017 03:54:47	Continuing Calibration Verification1	Ag (328.068 nm)	0.4796 (ppm)	0.40	0.4796 (ppm)	35109.3405
11/2/2017 03:54:47	Continuing Calibration Verification1	Al (394.401 nm)	9.4067 (ppm)	0.52	9.4067 (ppm)	125695.3557
11/2/2017 03:54:47	Continuing Calibration Verification1	As (188.980 nm)	0.9353 (ppm)	0.45	0.9353 (ppm)	862.7921
11/2/2017 03:54:47	Continuing Calibration Verification1	B (249.772 nm)	2.3596 (ppm)	0.32	2.3596 (ppm)	67709.9136
11/2/2017 03:54:47	Continuing Calibration Verification1	Ba (230.424 nm)	9.9447 (ppm)	0.27	9.9447 (ppm)	348047.5053
11/2/2017 03:54:47	Continuing Calibration Verification1	Be (313.107 nm)	0.2484 (ppm)	0.58	0.2484 (ppm)	376323.0169
11/2/2017 03:54:47	Continuing Calibration Verification1	Ca (227.547 nm)	23.7859 (ppm)	0.53	23.7859 (ppm)	1403.0581
11/2/2017 03:54:47	Continuing Calibration Verification1	Cd (214.439 nm)	0.4803 (ppm)	0.17	0.4803 (ppm)	10935.2049
11/2/2017 03:54:47	Continuing Calibration Verification1	Co (230.786 nm)	2.5073 (ppm)	0.20	2.5073 (ppm)	25803.4946

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 03:54:47	Continuing Calibration Verification1	Cr (267.716 nm)	0.4822 (ppm)	0.22	0.4822 (ppm)	25148.6726
11/2/2017 03:54:47	Continuing Calibration Verification1	Cu (327.395 nm)	1.1986 (ppm)	0.56	1.1986 (ppm)	75305.8654
11/2/2017 03:54:47	Continuing Calibration Verification1	Fe (234.350 nm)	4.6739 (ppm)	0.28	4.6739 (ppm)	54369.3359
11/2/2017 03:54:47	Continuing Calibration Verification1	K (766.491 nm)	24.4693 (ppm)	0.63	24.4693 (ppm)	75607.9947
11/2/2017 03:54:47	Continuing Calibration Verification1	Mg (279.078 nm)	24.0402 (ppm)	0.24	24.0402 (ppm)	48500.8761
11/2/2017 03:54:47	Continuing Calibration Verification1	Mn (257.610 nm)	0.7303 (ppm)	0.25	0.7303 (ppm)	236295.7487
11/2/2017 03:54:47	Continuing Calibration Verification1	Mo (202.032 nm)	2.3359 (ppm)	0.21	2.3359 (ppm)	25010.9218
11/2/2017 03:54:47	Continuing Calibration Verification1	Na (588.995 nm)	24.7348 (ppm)	0.72	24.7348 (ppm)	1129024.2180
11/2/2017 03:54:47	Continuing Calibration Verification1	Ni (230.299 nm)	1.9710 (ppm)	0.15	1.9710 (ppm)	13651.1011
11/2/2017 03:54:47	Continuing Calibration Verification1	Pb (220.353 nm)	0.4818 (ppm)	0.32	0.4818 (ppm)	1081.2377
11/2/2017 03:54:47	Continuing Calibration Verification1	Sb (217.582 nm)	4.7622 (ppm)	0.64	4.7622 (ppm)	6797.8894
11/2/2017 03:54:47	Continuing Calibration Verification1	Se (196.026 nm)	0.4679 (ppm)	0.72	0.4679 (ppm)	414.2516
11/2/2017 03:54:47	Continuing Calibration Verification1	Sn (189.925 nm)	4.8792 (ppm)	0.30	4.8792 (ppm)	6217.0472
11/2/2017 03:54:47	Continuing Calibration Verification1	Sr (216.596 nm)	2.4111 (ppm)	0.30	2.4111 (ppm)	35966.5826
11/2/2017 03:54:47	Continuing Calibration Verification1	Ti (336.122 nm)	2.4523 (ppm)	0.44	2.4523 (ppm)	537379.4884
11/2/2017 03:54:47	Continuing Calibration Verification1	Tl (351.923 nm)	0.9730 (ppm)	0.71	0.9730 (ppm)	2776.9297
11/2/2017 03:54:47	Continuing Calibration Verification1	V (292.401 nm)	2.4448 (ppm)	0.30	2.4448 (ppm)	88115.9875
11/2/2017 03:54:47	Continuing Calibration Verification1	Y (360.074 nm)	0.99 (Ratio)	0.82	0.99 (Ratio)	922894.75
11/2/2017 03:54:47	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98 (Ratio)	0.82	0.98 (Ratio)	920955.57
11/2/2017 03:54:47	Continuing Calibration Verification1	Zn (213.857 nm)	0.9669 (ppm)	0.32	0.9669 (ppm)	28061.3260
11/2/2017 03:58:06	Continuing Calibration Blank1	Ag (328.068 nm)	0.0003 (ppm)	6.18	0.0003 (ppm)	-106.7774
11/2/2017 03:58:06	Continuing Calibration Blank1	Al (394.401 nm)	0.0013 (ppm)	40.43	0.0013 (ppm)	101.2905
11/2/2017 03:58:06	Continuing Calibration Blank1	As (188.980 nm)	0.0023 (ppm)	30.11	0.0023 (ppm)	-0.7588
11/2/2017 03:58:06	Continuing Calibration Blank1	B (249.772 nm)	0.0008 (ppm)	85.52	0.0008 (ppm)	113.7554
11/2/2017 03:58:06	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005 (ppm)	20.99	0.0005 (ppm)	26.7000
11/2/2017 03:58:06	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	29.92	0.0000 (ppm)	-480.6653
11/2/2017 03:58:06	Continuing Calibration Blank1	Ca (227.547 nm)	-0.0095 u (ppm)	> 100.00	-0.0095 (ppm)	5.6132
11/2/2017 03:58:06	Continuing Calibration Blank1	Cd (214.439 nm)	0.0001 (ppm)	23.54	0.0001 (ppm)	15.4875
11/2/2017 03:58:06	Continuing Calibration Blank1	Co (230.786 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.7011
11/2/2017 03:58:06	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	1.0935
11/2/2017 03:58:06	Continuing Calibration Blank1	Cu (327.395 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	24.1173
11/2/2017 03:58:06	Continuing Calibration Blank1	Fe (234.350 nm)	0.0004 (ppm)	> 100.00	0.0004 (ppm)	77.8943
11/2/2017 03:58:06	Continuing Calibration Blank1	K (766.491 nm)	0.0163 (ppm)	32.12	0.0163 (ppm)	107.9340
11/2/2017 03:58:06	Continuing Calibration Blank1	Mg (279.078 nm)	0.0030 (ppm)	40.63	0.0030 (ppm)	-0.9055
11/2/2017 03:58:06	Continuing Calibration Blank1	Mn (257.610 nm)	0.0005 (ppm)	18.26	0.0005 (ppm)	179.6530
11/2/2017 03:58:06	Continuing Calibration Blank1	Mo (202.032 nm)	0.0020 (ppm)	8.32	0.0020 (ppm)	38.3433
11/2/2017 03:58:06	Continuing Calibration Blank1	Na (588.995 nm)	0.0076 (ppm)	6.70	0.0076 (ppm)	-5628.8593
11/2/2017 03:58:06	Continuing Calibration Blank1	Ni (230.299 nm)	0.0005 (ppm)	75.25	0.0005 (ppm)	-22.8332
11/2/2017 03:58:06	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0004 u (ppm)	92.89	-0.0004 (ppm)	4.7442
11/2/2017 03:58:06	Continuing Calibration Blank1	Sb (217.582 nm)	-0.0004 u (ppm)	> 100.00	-0.0004 (ppm)	3.5383
11/2/2017 03:58:06	Continuing Calibration Blank1	Se (196.026 nm)	0.0010 u (ppm)	> 100.00	0.0010 (ppm)	6.3700
11/2/2017 03:58:06	Continuing Calibration Blank1	Sn (189.925 nm)	0.0006 u (ppm)	> 100.00	0.0006 (ppm)	0.5596
11/2/2017 03:58:06	Continuing Calibration Blank1	Sr (216.596 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	-0.4879
11/2/2017 03:58:06	Continuing Calibration Blank1	Ti (336.122 nm)	0.0009 (ppm)	6.87	0.0009 (ppm)	-213.6770
11/2/2017 03:58:06	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0005 u (ppm)	> 100.00	-0.0005 (ppm)	13.2845
11/2/2017 03:58:06	Continuing Calibration Blank1	V (292.401 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	110.5015
11/2/2017 03:58:06	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.70	1.03 (Ratio)	967465.55
11/2/2017 03:58:06	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.71	1.03 (Ratio)	965132.86
11/2/2017 03:58:06	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	8.46	0.0003 (ppm)	-21.1802
11/2/2017 04:01:25	Contract Required Detection Limit	Ag (328.068 nm)	0.0097 (ppm)	1.19	0.0097 (ppm)	584.3012
11/2/2017 04:01:25	Contract Required Detection Limit	Al (394.401 nm)	0.1714 (ppm)	0.91	0.1714 (ppm)	2371.9780

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 04:01:25	Contract Required Detection Limit	As (188.980 nm)	0.0202 (ppm)	9.67	0.0202 (ppm)	15.7556
11/2/2017 04:01:25	Contract Required Detection Limit	B (249.772 nm)	0.1829 (ppm)	0.47	0.1829 (ppm)	5332.3581
11/2/2017 04:01:25	Contract Required Detection Limit	Ba (230.424 nm)	0.2030 (ppm)	0.46	0.2030 (ppm)	7111.7745
11/2/2017 04:01:25	Contract Required Detection Limit	Be (313.107 nm)	0.0047 (ppm)	0.31	0.0047 (ppm)	6659.4847
11/2/2017 04:01:25	Contract Required Detection Limit	Ca (227.547 nm)	0.9134 (ppm)	3.34	0.9134 (ppm)	59.8106
11/2/2017 04:01:25	Contract Required Detection Limit	Cd (214.439 nm)	0.0096 (ppm)	1.30	0.0096 (ppm)	231.7021
11/2/2017 04:01:25	Contract Required Detection Limit	Co (230.786 nm)	0.0490 (ppm)	0.65	0.0490 (ppm)	503.4271
11/2/2017 04:01:25	Contract Required Detection Limit	Cr (267.716 nm)	0.0096 (ppm)	1.61	0.0096 (ppm)	500.3982
11/2/2017 04:01:25	Contract Required Detection Limit	Cu (327.395 nm)	0.0241 (ppm)	0.87	0.0241 (ppm)	1537.7997
11/2/2017 04:01:25	Contract Required Detection Limit	Fe (234.350 nm)	0.0926 (ppm)	0.17	0.0926 (ppm)	1148.1097
11/2/2017 04:01:25	Contract Required Detection Limit	K (766.491 nm)	0.9179 (ppm)	0.60	0.9179 (ppm)	2891.4422
11/2/2017 04:01:25	Contract Required Detection Limit	Mg (279.078 nm)	0.9528 (ppm)	0.29	0.9528 (ppm)	1915.5776
11/2/2017 04:01:25	Contract Required Detection Limit	Mn (257.610 nm)	0.0156 (ppm)	1.79	0.0156 (ppm)	5074.7589
11/2/2017 04:01:25	Contract Required Detection Limit	Mo (202.032 nm)	0.0238 (ppm)	1.57	0.0238 (ppm)	271.1835
11/2/2017 04:01:25	Contract Required Detection Limit	Na (588.995 nm)	1.0092 (ppm)	0.62	1.0092 (ppm)	40331.9659
11/2/2017 04:01:25	Contract Required Detection Limit	Ni (230.299 nm)	0.0402 (ppm)	0.71	0.0402 (ppm)	253.0247
11/2/2017 04:01:25	Contract Required Detection Limit	Pb (220.353 nm)	0.0085 (ppm)	4.50	0.0085 (ppm)	24.6490
11/2/2017 04:01:25	Contract Required Detection Limit	Sb (217.582 nm)	0.0539 (ppm)	4.86	0.0539 (ppm)	81.0218
11/2/2017 04:01:25	Contract Required Detection Limit	Se (196.026 nm)	0.0104 (ppm)	11.91	0.0104 (ppm)	14.6198
11/2/2017 04:01:25	Contract Required Detection Limit	Sn (189.925 nm)	0.4824 (ppm)	1.14	0.4824 (ppm)	614.5044
11/2/2017 04:01:25	Contract Required Detection Limit	Sr (216.596 nm)	0.0969 (ppm)	0.04	0.0969 (ppm)	1444.2731
11/2/2017 04:01:25	Contract Required Detection Limit	Ti (336.122 nm)	0.0493 (ppm)	0.43	0.0493 (ppm)	10398.4088
11/2/2017 04:01:25	Contract Required Detection Limit	Tl (351.923 nm)	0.0166 (ppm)	9.56	0.0166 (ppm)	61.7996
11/2/2017 04:01:25	Contract Required Detection Limit	V (292.401 nm)	0.0475 (ppm)	0.42	0.0475 (ppm)	1821.1518
11/2/2017 04:01:25	Contract Required Detection Limit	Y (360.074 nm)	1.03 (Ratio)	0.83	1.03 (Ratio)	968945.93
11/2/2017 04:01:25	Contract Required Detection Limit	Y_R (360.074 nm)	1.03 (Ratio)	0.83	1.03 (Ratio)	966589.73
11/2/2017 04:01:25	Contract Required Detection Limit	Zn (213.857 nm)	0.0185 (ppm)	0.42	0.0185 (ppm)	507.0305
11/2/2017 04:04:44	Interference Check Solution A	Ag (328.068 nm)	0.0004 (ppm)	14.45	0.0004 (ppm)	-96.0015
11/2/2017 04:04:44	Interference Check Solution A	Al (394.401 nm)	261.1673 o (ppm)	0.54	261.1673 (ppm)	3487569.3661
11/2/2017 04:04:44	Interference Check Solution A	As (188.980 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	-2.9717
11/2/2017 04:04:44	Interference Check Solution A	B (249.772 nm)	0.0358 (ppm)	0.64	0.0358 (ppm)	1117.6418
11/2/2017 04:04:44	Interference Check Solution A	Ba (230.424 nm)	0.0003 (ppm)	52.53	0.0003 (ppm)	20.0335
11/2/2017 04:04:44	Interference Check Solution A	Be (313.107 nm)	-0.0001 u (ppm)	13.22	-0.0001 (ppm)	-587.3816
11/2/2017 04:04:44	Interference Check Solution A	Ca (227.547 nm)	265.2897 o (ppm)	0.49	265.2897 (ppm)	15586.0100
11/2/2017 04:04:44	Interference Check Solution A	Cd (214.439 nm)	-0.0013 Ku (ppm)	6.98	-0.0013 (ppm)	-17.0337 K
11/2/2017 04:04:44	Interference Check Solution A	Co (230.786 nm)	-0.0023 u (ppm)	25.00	-0.0023 (ppm)	-25.2067
11/2/2017 04:04:44	Interference Check Solution A	Cr (267.716 nm)	0.0002 (ppm)	46.89	0.0002 (ppm)	10.4797
11/2/2017 04:04:44	Interference Check Solution A	Cu (327.395 nm)	0.0007 (ppm)	15.25	0.0007 (ppm)	65.6921
11/2/2017 04:04:44	Interference Check Solution A	Fe (234.350 nm)	85.4269 o (ppm)	0.19	85.4269 (ppm)	992485.2144
11/2/2017 04:04:44	Interference Check Solution A	K (766.491 nm)	0.0193 (ppm)	56.99	0.0193 (ppm)	117.0777
11/2/2017 04:04:44	Interference Check Solution A	Mg (279.078 nm)	254.6391 o (ppm)	0.18	254.6391 (ppm)	513799.2383
11/2/2017 04:04:44	Interference Check Solution A	Mn (257.610 nm)	0.0024 (ppm)	13.73	0.0024 (ppm)	819.5056
11/2/2017 04:04:44	Interference Check Solution A	Mo (202.032 nm)	0.0003 (ppm)	> 100.00	0.0003 (ppm)	20.2921
11/2/2017 04:04:44	Interference Check Solution A	Na (588.995 nm)	0.0096 (ppm)	19.60	0.0096 (ppm)	-5539.6376
11/2/2017 04:04:44	Interference Check Solution A	Ni (230.299 nm)	-0.0010 u (ppm)	41.02	-0.0010 (ppm)	-32.6533
11/2/2017 04:04:44	Interference Check Solution A	Pb (220.353 nm)	-0.0007 u (ppm)	> 100.00	-0.0007 (ppm)	3.9839
11/2/2017 04:04:44	Interference Check Solution A	Sb (217.582 nm)	-0.0052 u (ppm)	48.92	-0.0052 (ppm)	-3.2464
11/2/2017 04:04:44	Interference Check Solution A	Se (196.026 nm)	-0.0028 u (ppm)	66.35	-0.0028 (ppm)	3.0295
11/2/2017 04:04:44	Interference Check Solution A	Sn (189.925 nm)	-0.0009 u (ppm)	> 100.00	-0.0009 (ppm)	-1.2386
11/2/2017 04:04:44	Interference Check Solution A	Sr (216.596 nm)	0.0183 (ppm)	2.08	0.0183 (ppm)	271.8278
11/2/2017 04:04:44	Interference Check Solution A	Ti (336.122 nm)	0.0015 (ppm)	5.40	0.0015 (ppm)	-99.5616

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 04:04:44	Interference Check Solution A	Tl (351.923 nm)	0.0001 u (ppm)	> 100.00	0.0001 (ppm)	14.7872
11/2/2017 04:04:44	Interference Check Solution A	V (292.401 nm)	0.0031 K (ppm)	3.58	0.0031 (ppm)	221.3758 K
11/2/2017 04:04:44	Interference Check Solution A	Y (360.074 nm)	0.90 (Ratio)	0.87	0.90 (Ratio)	840848.20
11/2/2017 04:04:44	Interference Check Solution A	Y_R (360.074 nm)	0.90 (Ratio)	0.86	0.90 (Ratio)	839056.62
11/2/2017 04:04:44	Interference Check Solution A	Zn (213.857 nm)	0.0112 K (ppm)	0.99	0.0112 (ppm)	293.2844 K
11/2/2017 04:08:03	Interference Check Solution AB	Ag (328.068 nm)	0.2112 (ppm)	0.26	0.2112 (ppm)	15390.5578
11/2/2017 04:08:03	Interference Check Solution AB	Al (394.401 nm)	261.4801 o (ppm)	0.31	261.4801 (ppm)	3491746.6605
11/2/2017 04:08:03	Interference Check Solution AB	As (188.980 nm)	0.1027 (ppm)	2.30	0.1027 (ppm)	92.1385
11/2/2017 04:08:03	Interference Check Solution AB	B (249.772 nm)	0.0364 (ppm)	0.61	0.0364 (ppm)	1133.4448
11/2/2017 04:08:03	Interference Check Solution AB	Ba (230.424 nm)	0.5087 (ppm)	0.35	0.5087 (ppm)	17810.4144
11/2/2017 04:08:03	Interference Check Solution AB	Be (313.107 nm)	0.4957 (ppm)	0.06	0.4957 (ppm)	751353.8799
11/2/2017 04:08:03	Interference Check Solution AB	Ca (227.547 nm)	263.8865 o (ppm)	0.35	263.8865 (ppm)	15503.6027
11/2/2017 04:08:03	Interference Check Solution AB	Cd (214.439 nm)	0.9266 (ppm)	0.13	0.9266 (ppm)	21083.9646
11/2/2017 04:08:03	Interference Check Solution AB	Co (230.786 nm)	0.4796 (ppm)	0.22	0.4796 (ppm)	4934.7291
11/2/2017 04:08:03	Interference Check Solution AB	Cr (267.716 nm)	0.4720 (ppm)	0.12	0.4720 (ppm)	24614.6928
11/2/2017 04:08:03	Interference Check Solution AB	Cu (327.395 nm)	0.5307 (ppm)	0.23	0.5307 (ppm)	33353.3134
11/2/2017 04:08:03	Interference Check Solution AB	Fe (234.350 nm)	85.6375 o (ppm)	0.20	85.6375 (ppm)	994931.6651
11/2/2017 04:08:03	Interference Check Solution AB	K (766.491 nm)	-0.0088 u (ppm)	45.20	-0.0088 (ppm)	30.2131
11/2/2017 04:08:03	Interference Check Solution AB	Mg (279.078 nm)	254.9172 o (ppm)	0.07	254.9172 (ppm)	514360.3599
11/2/2017 04:08:03	Interference Check Solution AB	Mn (257.610 nm)	0.4826 (ppm)	0.19	0.4826 (ppm)	156181.0731
11/2/2017 04:08:03	Interference Check Solution AB	Mo (202.032 nm)	0.0002 u (ppm)	> 100.00	0.0002 (ppm)	19.2033
11/2/2017 04:08:03	Interference Check Solution AB	Na (588.995 nm)	0.0164 (ppm)	8.14	0.0164 (ppm)	-5227.7038
11/2/2017 04:08:03	Interference Check Solution AB	Ni (230.299 nm)	0.9264 (ppm)	0.05	0.9264 (ppm)	6402.1214
11/2/2017 04:08:03	Interference Check Solution AB	Pb (220.353 nm)	0.0461 (ppm)	4.37	0.0461 (ppm)	108.6254
11/2/2017 04:08:03	Interference Check Solution AB	Sb (217.582 nm)	0.5977 (ppm)	0.29	0.5977 (ppm)	856.8108
11/2/2017 04:08:03	Interference Check Solution AB	Se (196.026 nm)	0.0547 (ppm)	2.52	0.0547 (ppm)	53.3379
11/2/2017 04:08:03	Interference Check Solution AB	Sn (189.925 nm)	0.0024 (ppm)	80.66	0.0024 (ppm)	2.9335
11/2/2017 04:08:03	Interference Check Solution AB	Sr (216.596 nm)	0.0188 (ppm)	1.83	0.0188 (ppm)	278.5689
11/2/2017 04:08:03	Interference Check Solution AB	Ti (336.122 nm)	0.0013 (ppm)	5.59	0.0013 (ppm)	-134.0650
11/2/2017 04:08:03	Interference Check Solution AB	Tl (351.923 nm)	0.1119 (ppm)	4.38	0.1119 (ppm)	332.2465
11/2/2017 04:08:03	Interference Check Solution AB	V (292.401 nm)	0.4934 (ppm)	0.28	0.4934 (ppm)	17872.5971
11/2/2017 04:08:03	Interference Check Solution AB	Y (360.074 nm)	0.90 (Ratio)	0.70	0.90 (Ratio)	839910.52
11/2/2017 04:08:03	Interference Check Solution AB	Y_R (360.074 nm)	0.90 (Ratio)	0.71	0.90 (Ratio)	837996.43
11/2/2017 04:08:03	Interference Check Solution AB	Zn (213.857 nm)	0.9929 (ppm)	0.10	0.9929 (ppm)	28818.2097
11/2/2017 04:11:23	Continuing Calibration Verification1	Ag (328.068 nm)	0.4798 (ppm)	0.41	0.4798 (ppm)	35123.7766
11/2/2017 04:11:23	Continuing Calibration Verification1	Al (394.401 nm)	9.4289 (ppm)	0.50	9.4289 (ppm)	125991.3537
11/2/2017 04:11:23	Continuing Calibration Verification1	As (188.980 nm)	0.9369 (ppm)	0.66	0.9369 (ppm)	864.2161
11/2/2017 04:11:23	Continuing Calibration Verification1	B (249.772 nm)	2.3640 (ppm)	0.27	2.3640 (ppm)	67835.9770
11/2/2017 04:11:23	Continuing Calibration Verification1	Ba (230.424 nm)	9.9580 (ppm)	0.41	9.9580 (ppm)	348513.1083
11/2/2017 04:11:23	Continuing Calibration Verification1	Be (313.107 nm)	0.2485 (ppm)	0.47	0.2485 (ppm)	376365.0516
11/2/2017 04:11:23	Continuing Calibration Verification1	Ca (227.547 nm)	23.8736 (ppm)	0.43	23.8736 (ppm)	1408.2115
11/2/2017 04:11:23	Continuing Calibration Verification1	Cd (214.439 nm)	0.4811 (ppm)	0.38	0.4811 (ppm)	10953.0508
11/2/2017 04:11:23	Continuing Calibration Verification1	Co (230.786 nm)	2.5065 (ppm)	0.40	2.5065 (ppm)	25795.8345
11/2/2017 04:11:23	Continuing Calibration Verification1	Cr (267.716 nm)	0.4820 (ppm)	0.29	0.4820 (ppm)	25135.1811
11/2/2017 04:11:23	Continuing Calibration Verification1	Cu (327.395 nm)	1.2005 (ppm)	0.58	1.2005 (ppm)	75421.9985
11/2/2017 04:11:23	Continuing Calibration Verification1	Fe (234.350 nm)	4.6867 (ppm)	0.31	4.6867 (ppm)	54518.7978
11/2/2017 04:11:23	Continuing Calibration Verification1	K (766.491 nm)	24.5334 (ppm)	0.65	24.5334 (ppm)	75805.8357
11/2/2017 04:11:23	Continuing Calibration Verification1	Mg (279.078 nm)	24.0496 (ppm)	0.34	24.0496 (ppm)	48519.9209
11/2/2017 04:11:23	Continuing Calibration Verification1	Mn (257.610 nm)	0.7305 (ppm)	0.40	0.7305 (ppm)	236379.6809
11/2/2017 04:11:23	Continuing Calibration Verification1	Mo (202.032 nm)	2.3395 (ppm)	0.33	2.3395 (ppm)	25048.7123
11/2/2017 04:11:23	Continuing Calibration Verification1	Na (588.995 nm)	24.7239 (ppm)	0.59	24.7239 (ppm)	1128521.5618

Date Time	Label	Element Label (nm)	Conc	%RSD	Unadjusted Conc	Intensity
11/2/2017 04:11:23	Continuing Calibration Verification1	Ni (230.299 nm)	1.9722 (ppm)	0.38	1.9722 (ppm)	13659.0629
11/2/2017 04:11:23	Continuing Calibration Verification1	Pb (220.353 nm)	0.4819 (ppm)	0.07	0.4819 (ppm)	1081.3163
11/2/2017 04:11:23	Continuing Calibration Verification1	Sb (217.582 nm)	4.7644 (ppm)	0.60	4.7644 (ppm)	6800.9305
11/2/2017 04:11:23	Continuing Calibration Verification1	Se (196.026 nm)	0.4691 (ppm)	0.47	0.4691 (ppm)	415.2979
11/2/2017 04:11:23	Continuing Calibration Verification1	Sn (189.925 nm)	4.8869 (ppm)	0.46	4.8869 (ppm)	6226.8977
11/2/2017 04:11:23	Continuing Calibration Verification1	Sr (216.596 nm)	2.4150 (ppm)	0.16	2.4150 (ppm)	36024.3415
11/2/2017 04:11:23	Continuing Calibration Verification1	Ti (336.122 nm)	2.4547 (ppm)	0.37	2.4547 (ppm)	537893.4283
11/2/2017 04:11:23	Continuing Calibration Verification1	Tl (351.923 nm)	0.9729 (ppm)	0.29	0.9729 (ppm)	2776.6643
11/2/2017 04:11:23	Continuing Calibration Verification1	V (292.401 nm)	2.4451 (ppm)	0.30	2.4451 (ppm)	88125.4137
11/2/2017 04:11:23	Continuing Calibration Verification1	Y (360.074 nm)	0.98 (Ratio)	0.74	0.98 (Ratio)	922329.89
11/2/2017 04:11:23	Continuing Calibration Verification1	Y_R (360.074 nm)	0.98 (Ratio)	0.74	0.98 (Ratio)	920022.62
11/2/2017 04:11:23	Continuing Calibration Verification1	Zn (213.857 nm)	0.9671 (ppm)	0.29	0.9671 (ppm)	28067.3545
11/2/2017 04:14:41	Continuing Calibration Blank1	Ag (328.068 nm)	0.0003 (ppm)	32.99	0.0003 (ppm)	-104.0275
11/2/2017 04:14:41	Continuing Calibration Blank1	Al (394.401 nm)	0.0007 (ppm)	73.95	0.0007 (ppm)	93.2254
11/2/2017 04:14:41	Continuing Calibration Blank1	As (188.980 nm)	0.0026 (ppm)	41.18	0.0026 (ppm)	-0.5007
11/2/2017 04:14:41	Continuing Calibration Blank1	B (249.772 nm)	0.0009 (ppm)	62.01	0.0009 (ppm)	116.4702
11/2/2017 04:14:41	Continuing Calibration Blank1	Ba (230.424 nm)	0.0005 (ppm)	4.01	0.0005 (ppm)	25.7399
11/2/2017 04:14:41	Continuing Calibration Blank1	Be (313.107 nm)	0.0000 (ppm)	55.34	0.0000 (ppm)	-482.4815
11/2/2017 04:14:41	Continuing Calibration Blank1	Ca (227.547 nm)	0.0005 u (ppm)	> 100.00	0.0005 (ppm)	6.1992
11/2/2017 04:14:41	Continuing Calibration Blank1	Cd (214.439 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	13.4186
11/2/2017 04:14:41	Continuing Calibration Blank1	Co (230.786 nm)	0.0002 (ppm)	> 100.00	0.0002 (ppm)	0.3685
11/2/2017 04:14:41	Continuing Calibration Blank1	Cr (267.716 nm)	0.0000 (ppm)	> 100.00	0.0000 (ppm)	-0.4144
11/2/2017 04:14:41	Continuing Calibration Blank1	Cu (327.395 nm)	0.0001 (ppm)	79.28	0.0001 (ppm)	28.0818
11/2/2017 04:14:41	Continuing Calibration Blank1	Fe (234.350 nm)	0.0010 (ppm)	33.57	0.0010 (ppm)	84.6356
11/2/2017 04:14:41	Continuing Calibration Blank1	K (766.491 nm)	-0.0001 u (ppm)	> 100.00	-0.0001 (ppm)	57.2355
11/2/2017 04:14:41	Continuing Calibration Blank1	Mg (279.078 nm)	0.0037 (ppm)	10.48	0.0037 (ppm)	0.5029
11/2/2017 04:14:41	Continuing Calibration Blank1	Mn (257.610 nm)	0.0004 (ppm)	25.83	0.0004 (ppm)	170.5570
11/2/2017 04:14:41	Continuing Calibration Blank1	Mo (202.032 nm)	0.0021 (ppm)	8.72	0.0021 (ppm)	39.7337
11/2/2017 04:14:41	Continuing Calibration Blank1	Na (588.995 nm)	0.0086 (ppm)	11.73	0.0086 (ppm)	-5584.1196
11/2/2017 04:14:41	Continuing Calibration Blank1	Ni (230.299 nm)	0.0009 (ppm)	41.80	0.0009 (ppm)	-19.7284
11/2/2017 04:14:41	Continuing Calibration Blank1	Pb (220.353 nm)	-0.0006 u (ppm)	25.57	-0.0006 (ppm)	4.2669
11/2/2017 04:14:41	Continuing Calibration Blank1	Sb (217.582 nm)	-0.0012 u (ppm)	> 100.00	-0.0012 (ppm)	2.4537
11/2/2017 04:14:41	Continuing Calibration Blank1	Se (196.026 nm)	0.0007 u (ppm)	> 100.00	0.0007 (ppm)	6.1594
11/2/2017 04:14:41	Continuing Calibration Blank1	Sn (189.925 nm)	0.0014 (ppm)	97.90	0.0014 (ppm)	1.5770
11/2/2017 04:14:41	Continuing Calibration Blank1	Sr (216.596 nm)	0.0001 (ppm)	64.70	0.0001 (ppm)	0.8102
11/2/2017 04:14:41	Continuing Calibration Blank1	Ti (336.122 nm)	0.0010 (ppm)	2.29	0.0010 (ppm)	-193.0876
11/2/2017 04:14:41	Continuing Calibration Blank1	Tl (351.923 nm)	-0.0032 u (ppm)	74.88	-0.0032 (ppm)	5.5532
11/2/2017 04:14:41	Continuing Calibration Blank1	V (292.401 nm)	0.0000 u (ppm)	> 100.00	0.0000 (ppm)	109.9830
11/2/2017 04:14:41	Continuing Calibration Blank1	Y (360.074 nm)	1.03 (Ratio)	0.74	1.03 (Ratio)	964679.59
11/2/2017 04:14:41	Continuing Calibration Blank1	Y_R (360.074 nm)	1.03 (Ratio)	0.73	1.03 (Ratio)	962007.44
11/2/2017 04:14:41	Continuing Calibration Blank1	Zn (213.857 nm)	0.0003 (ppm)	5.38	0.0003 (ppm)	-22.0456

Ag (328.068 nm)
Intensity = 73461.0152 * Concentration - 125.6661
Correlation coefficient: 0.99999

As (188.980 nm)
Intensity = 925.5343 * Concentration - 2.8977
Correlation coefficient: 0.99999

B (249.772 nm)
Intensity = 28656.9173 * Concentration + 90.8182
Correlation coefficient: 0.99999

Ba (230.424 nm)
Intensity = 34997.5332 * Concentration + 8.0097
Correlation coefficient: 0.99996

Be (313.107 nm)
Intensity = 1516744.2332 * Concentration - 506.4220
Correlation coefficient: 1.00000

Cd (214.439 nm)
Intensity = 22741.7971 * Concentration + 12.4480
Correlation coefficient: 0.99999

Co (230.786 nm)
Intensity = 10292.0366 * Concentration - 1.3037
Correlation coefficient: 0.99999

Cr (267.716 nm)
Intensity = 52153.6146 * Concentration - 0.4709
Correlation coefficient: 1.00000

Cu (327.395 nm)
Intensity = 62809.2726 * Concentration + 21.4778
Correlation coefficient: 0.99998

K (766.491 nm)
Intensity = 3087.5652 * Concentration + 57.4981
Correlation coefficient: 0.99996

Mn (257.610 nm)
Intensity = 323530.3302 * Concentration + 32.5669
Correlation coefficient: 0.99999

Mo (202.032 nm)
Intensity = 10699.8546 * Concentration + 16.7992
Correlation coefficient: 1.00000

Na (588.995 nm)
Intensity = 45886.7944 * Concentration - 5978.7201
Correlation coefficient: 1.00000

Ni (230.299 nm)
Intensity = 6939.1513 * Concentration - 26.0500
Correlation coefficient: 0.99999

Pb (220.353 nm)
Intensity = 2232.2373 * Concentration + 5.6342
Correlation coefficient: 1.00000

Sb (217.582 nm)
Intensity = 1426.5931 * Concentration + 4.1307
Correlation coefficient: 1.00000

Se (196.026 nm)
Intensity = 873.5400 * Concentration + 5.5189
Correlation coefficient: 0.99998

Sn (189.925 nm)
Intensity = 1274.2311 * Concentration - 0.1532
Correlation coefficient: 0.99999

Ti (336.122 nm)
Intensity = 219301.2134 * Concentration - 419.8931
Correlation coefficient: 1.00000

Tl (351.923 nm)
Intensity = 2839.0513 * Concentration + 14.6249
Correlation coefficient: 0.99994

V (292.401 nm)
Intensity = 35996.7761 * Concentration + 110.0844
Correlation coefficient: 1.00000

Zn (213.857 nm)
Intensity = 29054.9692 * Concentration - 30.7212
Correlation coefficient: 1.00000

Al (394.401 nm)
Intensity = 13353.4573 * Concentration + 83.2660
Correlation coefficient: 0.99988

Ca (227.547 nm)
Intensity = 58.7276 * Concentration + 6.1700
Correlation coefficient: 0.99995

Fe (234.350 nm)
Intensity = 11617.0943 * Concentration + 72.7576
Correlation coefficient: 0.99998

Mg (279.078 nm)
Intensity = 2017.7822 * Concentration - 7.0294
Correlation coefficient: 1.00000

Sr (216.596 nm)
Intensity = 14917.2981 * Concentration - 1.1777
Correlation coefficient: 1.00000

Preparation Information Benchsheet

Prep Run#: 301955
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711235-01	MB		50mL	6010C/Ag T, Ba T, Be T, Cd D, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		HB: 7 Well: D1 Temp: 92.5C Corr. Factor: 0.0C Corr. Temp: 92.5C
2	RQ1711235-02	LCS		50mL	6010C/Ag T, Ba T, Be T, Cd D, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear	0.2500 mL/184175; 0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182726; 0.5000 mL/182727	
3	R1710073-001	GZA-3C	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
4	R1710073-002	GZA-3C Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
5	R1710073-003	GZA-3B	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
6	R1710073-004	GZA-3B Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
7	R1710073-005	GZA-3A	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
8	R1710073-006	GZA-3A Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
9	R1710073-007	GZA-6B	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1710073-008	GZA-6B Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
11	R1710073-009	GZA-6A	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
12	R1710073-010	GZA-6A Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
13	R1710073-013	RFW-2D	.19	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
14	RQ1711235-03	R1710073-013 MS	.19	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.1000 mL/180703; 0.5000 mL/182727; 0.0500 mL/180701; 0.2500 mL/184175	
15	RQ1711235-04	R1710073-013 DMS	.19	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.2500 mL/184175; 0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182727	
16	R1710073-014	RFW-2D Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
17	RQ1711235-05	R1710073-014 MS	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear	0.5000 mL/182727; 0.0500 mL/180701; 0.2500 mL/184175; 0.1000 mL/180703; 0.5000 mL/182726	

Preparation Information Benchsheet

Prep Run#: 301955 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/30/17 03:33 PM

18	RQ1711235-06	R1710073-014 DMS	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/182727; 0.0500 mL/180701; 0.5000 mL/182726; 0.2500 mL/184175	
19	R1710073-015	RFW-2S	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
20	R1710073-016	RFW-2S Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
21	R1710073-017	RFW-2B	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
22	R1710073-018	RFW-2B Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
23	R1710073-019	RFW-4S	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
24	R1710073-020	RFW-4S Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
25	R1710073-021	RFW-4D	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
26	R1710073-022	RFW-4D Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Thermometer	293 (12952)				

Preparation Steps

Step: Digestion
Started: 10/30/17 15:33
Finished: 10/31/17 14:35
By: KMCLAEN
Comments

Comments: _____

Preparation Information Benchsheet

Prep Run#: 301955
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

Reviewed By: Nicole [signature] Date: 10/31/17

Spike Witness: NMANSEN Date:

Chain of Custody

Relinquished By: Kelly McJaen Date: 10131117

Received By: RAOI Date: 10131117

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 301957
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711245-01	MB		50mL	6010C/As T, Ba T, Ca D DOD, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg D DOD, Mg T, Mn T, Na T, Ni T, Pb D DOD, Pb T, Pb T DOD, Se T, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: D1 Temp: 92.0C Corr. Factor: 0.0C Corr. Temp: 92.0C
2	RQ1711245-02	LCS		50mL	6010C/As T, Ba T, Ca D DOD, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg D DOD, Mg T, Mn T, Na T, Ni T, Pb D DOD, Pb T, Pb T DOD, Se T, Zn T	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/182727; 0.2500 mL/184175; 0.5000 mL/182726; 0.0500 mL/180701	
3	R1710031-019	EB1-1017	.04	50mL	6010C/As T, Ba T, Ca T, Cd T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Se T, Zn T	<2			50.00mL	Colorless-Clear		
4	R1710033-001	PCM-01-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
5	R1710033-002	PCM-02-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
6	R1710033-003	PCM-05-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
7	R1710033-004	PCM-07R-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
8	R1710033-005	PCM-10-1017	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
9	RQ1711245-07	R1710033-005 MS	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/182727; 0.2500 mL/184175	
10	RQ1711245-08	R1710033-005 DMS	.06	50mL	6010C/As T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/182727; 0.5000 mL/182726; 0.1000 mL/180703; 0.2500 mL/184175	
11	K1710862-001	QUSW2017A01	.02	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD, Pb T DOD	<2			50.00mL	Colorless-Clear		Tier IV
12	K1710862-002	QUSW2017A02	.02	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD, Pb T DOD	<2			50.00mL	Colorless-Clear		
13	K1710862-003	QUSW2017B01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
14	K1710862-004	QUSW2017C01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
15	K1710862-005	QUSW2017D01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
16	K1710862-006	QUSW2617A01	.02	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD, Pb T DOD	<2			50.00mL	Colorless-Clear		
17	RQ1711245-03	K1710862-006 MS	.02	50mL	6010C/Pb T DOD	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.5000 mL/182727; 0.2500 mL/184175; 0.0500 mL/180701; 0.5000 mL/182726	
18	RQ1711245-04	K1710862-006 DMS	.02	50mL	6010C/Pb T DOD	<2			50.00mL	Colorless-Clear	0.2500 mL/184175; 0.0500 mL/180701; 0.5000 mL/182727; 0.1000 mL/180703; 0.5000 mL/182726	

Preparation Information Benchsheet

Prep Run#: 301957 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/30/17 03:33 PM

19	RQ1711245-05	K1710862-006 MS	.04	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182727; 0.2500 mL/184175; 0.5000 mL/182726	
20	RQ1711245-06	K1710862-006 DMS	.04	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.5000 mL/182727; 0.1000 mL/180703; 0.0500 mL/180701; 0.2500 mL/184175	
21	K1710862-007	QUSW2617A04	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
22	K1710862-008	QUSW2617B01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
23	K1710862-009	QUSW2617C01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
24	K1710862-010	QUSW2617D01	.03	50mL	6010C/Ca D DOD, Mg D DOD, Pb D DOD	<2			50.00mL	Colorless-Clear		
25	K1710862-014	QUSD2617A04	.02	50mL	6010C/Pb T DOD	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Thermometer	294 (12954)				

Preparation Steps

Step: Digestion
Started: 10/30/17 15:33
Finished: 10/31/17 14:47
By: KMCLAEN
Comments

Comments: DOD check M72900046 10/31/17

Reviewed By: Neal Date: 10/31/17 Spike Witness: NMANSEN Date:

Preparation Information Benchsheet

Prep Run#: 301957
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

Chain of Custody

Relinquished By:	Kelly McLaen	Date:	10131117	Extracts Examined
Received By:	RA01	Date:	10131117	Yes No

Preparation Information Benchsheet

Prep Run#: 301960
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:55 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711248-01	MB		50mL	6010C/Ag D, Ag T, Al D, Al T, As D, As T, B T, Ba D, Ba T, Be D, Be T, Ca D, Ca T, Cd D, Cd T, Co D, Co T, Cr D, Cr T, Cu D, Cu T, Fe D, Fe T, K D, K T, Mg D, Mg T, Mn D, Mn T, Na D, Na T, Ni D, Ni T, Pb D, Pb T, Sb D, Sb T, Se D, Se T, Tl D, Tl T, V D, V T, Zn D, Zn T	<2			50.00mL	Colorless-Clear		HB: 1 Well: D1 Temp: 92.0C Corr. Factor: 0.0C Corr. Temp: 92.0C Plunge Filtered
2	RQ1711248-02	LCS		50mL	6010C/Ag D, Ag T, Al D, Al T, As D, As T, B T, Ba D, Ba T, Be D, Be T, Ca D, Ca T, Cd D, Cd T, Co D, Co T, Cr D, Cr T, Cu D, Cu T, Fe D, Fe T, K D, K T, Mg D, Mg T, Mn D, Mn T, Na D, Na T, Ni D, Ni T, Pb D, Pb T, Sb D, Sb T, Se D, Se T, Tl D, Tl T, V D, V T, Zn D, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/182726; 0.1000 mL/180703; 0.5000 mL/182727; 0.2500 mL/184175	Plunge Filtered
3	R1710054-001	SW-1	.08	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		~~For PF~~ NM 10/31/17
4	RQ1711248-03	R1710054-001 MS	.08	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/182727; 0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/182726; 0.2500 mL/184175	
5	RQ1711248-04	R1710054-001 DMS	.08	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/182726; 0.1000 mL/180703; 0.2500 mL/184175; 0.5000 mL/182727	
6	R1710054-002	SW-2	.01	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
7	R1710054-004	MW-2	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
8	R1710054-006	MW-3	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 301960 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/30/17 03:55 PM

9	R1710054-008	MW-4	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1710054-010	MW-5	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
11	R1710054-012	MW-6	.09	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R1710054-013	DUPE-X	.08	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R1710113-001	MW-7	.02	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
14	R1710113-002	MW-3	.02	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Yellow-Cloudy/Yellow-Clear		
15	R1710113-003	MW-3 Diss	.01	50mL	6010C/Ag D, Al D, As D, Ba D, Be D, Ca D, Cd D, Co D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D, Sb D, Se D, Tl D, V D, Zn D	<2			50.00mL	Yellow-Cloudy/Yellow-Clear		Plunge Filtered
16	R1710113-004	MW-D	.02	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Yellow-Cloudy/Yellow-Cloudy		
17	R1710113-005	MW-D Diss	.01	50mL	6010C/Ag D, Al D, As D, Ba D, Be D, Ca D, Cd D, Co D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D, Sb D, Se D, Tl D, V D, Zn D	<2			50.00mL	Yellow-Clear/Yellow-Clear		
18	R1710113-006	MW-8	.02	50mL	6010C/Ag T, Al T, As T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Brown-Cloudy/Brown-Cloudy		Plunge Filtered

Preparation Information Benchsheet

Prep Run#: 301960 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/30/17 03:55 PM

19	R1710113-007	MW-8 Diss	.01	50mL	6010C/Ag D, Al D, As D, Ba D, Be D, Ca D, Cd D, Co D, Cr D, Cu D, Fe D, K D, Mg D, Mn D, Na D, Ni D, Pb D, Sb D, Se D, Tl D, V D, Zn D	<2			50.00mL	Brown-Cloudy/Brown-Cloudy		Plunge Filtered
20	R1710200-001	Primary Leachate Composite	.11	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R1710200-003	Secondary Leachate	.11	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Plunger Filter	184141 (184141)	Thermometer	294 (12954)		

Preparation Steps

Step: Digestion
Started: 10/30/17 15:55
Finished: 10/31/17 15:28
By: KMCLAEN
Comments

Comments: _____

Reviewed By: Nicole [signature] Date: 10/31/17 Spike Witness: NMANSEN Date: _____

Chain of Custody

Relinquished By: Kelly McJaen Date: 10131117
Received By: RAOI Date: 10131117

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 301737
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/26/17 05:45 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711141-01	MB		50mL	6010C/Ag T, Ag T DOD, Al T, Al T DOD, As T DOD, B T, Ba T, Ba T DOD, Be T, Be T DOD, Ca T, Ca T DOD, Cd T, Cd T DOD, Co T, Co T DOD, Cr T, Cr T DOD, Cu T, Cu T DOD, Fe T, Fe T DOD, K T, K T DOD, Mg T, Mg T DOD, Mn T, Mn T DOD, Mo T, Na T, Na T DOD, Ni T, Ni T DOD, Pb T, Pb T DOD, Sb T DOD, Se T, Se T DOD, Sn T, Sr T, Tl T DOD, V T, V T DOD, Zn T, Zn T DOD	<2			50.00mL	Colorless-Clear		HB: 7 Well: 14 Temp: 94.0C Corr. Factor: 0.0C Corr. Temp: 94.0C
2	RQ1711141-02	LCS		50mL	6010C/Ag T, Ag T DOD, Al T, Al T DOD, As T DOD, B T, Ba T, Ba T DOD, Be T, Be T DOD, Ca T, Ca T DOD, Cd T, Cd T DOD, Co T, Co T DOD, Cr T, Cr T DOD, Cu T, Cu T DOD, Fe T, Fe T DOD, K T, K T DOD, Mg T, Mg T DOD, Mn T, Mn T DOD, Mo T, Na T, Na T DOD, Ni T, Ni T DOD, Pb T, Pb T DOD, Sb T DOD, Se T, Se T DOD, Sn T, Sr T, Tl T DOD, V T, V T DOD, Zn T, Zn T DOD	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.0500 mL/180701; 0.5000 mL/182726; 0.5000 mL/182727; 0.2500 mL/184175	
3	R1710018-001	PCERI-MW25S	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		Tier IV
4	R1710018-002	DUP-101717-1	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 301737 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/26/17 05:45 PM

5	R1710018-003	PCERI-MW25I	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Purple-Cloudy/Purple-Cloudy		
6	R1710018-004	PCERI-IMW-05	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		
7	R1710018-005	PCERI-IMW-06	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		
8	RQ1711141-03	R1710018-005 MS	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182726; 0.5000 mL/182727; 0.2500 mL/184175	
9	RQ1711141-04	R1710018-005 DMS	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.5000 mL/182727; 0.1000 mL/180703; 0.2500 mL/184175; 0.5000 mL/182726	
10	R1710018-006	PCERI-IMW-03	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Pink-Clear/Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 301737 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/26/17 05:45 PM

11	R1710018-007	PCERI-IMW-04	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Purple-Cloudy/Colorless-Clear		
12	R1710018-008	PCERI-MW19S	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Pink-Clear/Colorless-Clear		
13	R1710018-009	PCERI-MW19I	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Purple-Cloudy/Purple-Cloudy		
14	R1710018-010	PCERI-IMW-01	.04	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Pink-Clear/Colorless-Clear		
15	R1710018-011	PCERI-IMW-02	.01	50mL	6010C/Ag T DOD, Al T DOD, As T DOD, Ba T DOD, Be T DOD, Ca T DOD, Cd T DOD, Co T DOD, Cr T DOD, Cu T DOD, Fe T DOD, K T DOD, Mg T DOD, Mn T DOD, Na T DOD, Ni T DOD, Pb T DOD, Sb T DOD, Se T DOD, Tl T DOD, V T DOD, Zn T DOD	<2			50.00mL	Colorless-Clear		
16	R1710069-003	1710191315B ST-7-453	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 301737 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/26/17 05:45 PM

17	R1710069-010	1710191400B ST-7-544	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R1710091-001	Outfall 01-1017	.01	50mL	6010C/Al T, Fe T, Zn T	<2			50.00mL	Colorless-Cloudy/Colorless-Cloudy		
19	R1710091-002	Outfall 03-1017	.04	50mL	6010C/Al T, Fe T, Zn T	<2			50.00mL	Colorless-Clear		
20	R1710091-003	Outfall 04-1017	.06	50mL	6010C/Al T, Fe T, Zn T	<2			50.00mL	Colorless-Clear		
21	R1710191-001	SE-0115-UT	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
22	R1710191-002	SE-0115-SB	.04	50mL	6010C/Ca T, Cd T, Fe T, K T, Mg T, Mn T, Na T, Pb T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade M7600003D (184968) Hot Block Cups 50 mL Lot 1703076 (182080) Nitric Acid Metals Grade HNO3 M7600002W (184969)
Thermometer 293 (12952)

Preparation Steps

Step: Digestion
Started: 10/26/17 17:45
Finished: 10/27/17 08:42
By: KMCLAEN
Comments

Comments: DOD check M7290046 10126117

Reviewed By: Nicol Date: 10/30/17

Chain of Custody

Relinquished By: Kim McJam Date: 10127117
Received By: RAOI Date: 10127117

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 302021
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/31/17 03:42 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711311-01	MB		50mL	6010C/Ag T, Al D, As T, Ba T, Be T, Cd D, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		HB: 4 Well: E2 Temp: 94.0C Corr. Factor: 0.0C Corr. Temp: 94.0C
2	RQ1711311-05	MB		50mL	6010C/Al D	<2			50.00mL	Colorless-Clear		Filtered 10/30/17
3	RQ1711311-02	LCS		50mL	6010C/Ag T, Al D, As T, Ba T, Be T, Cd D, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/182727; 0.5000 mL/182726; 0.0500 mL/180701; 0.1000 mL/180703; 0.2500 mL/184175	
4	R1710088-001	PCBM-01-1017	.08	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
5	R1710088-002	PCBM-02-1017	.08	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
6	RQ1711311-03	R1710088-002 MS	.08	50mL	6010C/As T	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.2500 mL/184175; 0.0500 mL/180701; 0.5000 mL/182726; 0.5000 mL/182727	
7	RQ1711311-04	R1710088-002 DMS	.08	50mL	6010C/As T	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.2500 mL/184175; 0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182727	
8	R1710088-003	PCM-03-1017	.08	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
9	R1710088-004	PCM-04-1017	.08	50mL	6010C/As T	<2			50.00mL	Colorless-Clear		
10	R1710211-001	Pump Station	.02	50mL	6010C/Fe T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
11	R1710211-002	Pump Station Diss	.01	50mL	6010C/Al D	<2			50.00mL	Colorless-Clear		
12	R1710211-003	TSD	.02	50mL	6010C/Fe T, Na T, Pb T	<2			50.00mL	Colorless-Clear		
13	R1710211-004	TSD Diss	.01	50mL	6010C/Al D	<2			50.00mL	Colorless-Clear		
14	R1710236-001	MW-4B	.07	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
15	R1710236-002	MW-4B Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
16	R1710236-003	ENSR-11A	.07	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
17	R1710236-004	ENSR-11A Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
18	R1710236-005	MW-2C	.07	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
19	R1710236-006	MW-2C Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
20	R1710236-007	MW-2A	.07	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
21	R1710236-008	MW-2A Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 302021
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/31/17 03:42 PM

22	R1710236-009	MW-2	.07	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
23	R1710236-010	MW-2 Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Thermometer	293 (12952)				

Preparation Steps

Step: Digestion
Started: 10/31/17 15:42
Finished: 11/1/17 12:04
By: KMCLAEN
Comments

Comments:

Reviewed By: Nicol Lt Date: 11/1/17 Spike Witness: NMANSEN Date:

Chain of Custody

Relinquished By: Kelly McJoun Date: 11/1/17
Received By: RAO1 Date: 11/1/17

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 302022
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/31/17 03:43 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711312-01	MB		50mL	6010C/Cd T, Cu T, Fe T, Mn T, Pb T, Sb T, Se T, Zn T	<2			50.00mL	Colorless-Clear		HB: 4 Well: E2 Temp: 94.0C Corr. Factor: 0.0C Corr. Temp: 94.0C
2	RQ1711312-02	LCS		50mL	6010C/Cd T, Cu T, Fe T, Mn T, Pb T, Sb T, Se T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/182726; 0.0500 mL/180701; 0.5000 mL/182727; 0.2500 mL/184175; 0.1000 mL/180703	
3	R1710078-002	T-34-DB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		Tier IV
4	RQ1711312-03	R1710078-002 MS	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.2500 mL/184175; 0.5000 mL/182727; 0.0500 mL/180701; 0.5000 mL/182726; 0.1000 mL/180703	
5	RQ1711312-04	R1710078-002 DMS	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear	0.1000 mL/180703; 0.2500 mL/184175; 0.0500 mL/180701; 0.5000 mL/182726; 0.5000 mL/182727	
6	R1710078-003	T-34-SB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
7	R1710078-004	T-34-SB DUP	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
8	R1710078-005	T-36-DB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
9	R1710078-006	T-23-SB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
10	R1710078-007	T-23-DB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
11	R1710078-009	WEX-0210-DB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
12	R1710078-010	WEX-0210-SB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
13	R1710078-011	WEX-0211-SB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
14	R1710078-012	IN-7S	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
15	R1710078-013	IN-6S	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
16	R1710078-014	T-25-SB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
17	R1710078-015	T-25-DB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
18	R1710078-016	T-39-DB	.01	50mL	6010C/Cd T, Fe T, Mn T, Pb T, Sb T	<2			50.00mL	Colorless-Clear		
19	R1710205-001	Lot: 1933578	.01	5mL	6010C/Cu T, Se T, Zn T	<2			50.00mL	Colorless-Clear		Cu 1X Se 5X Zn 20X

Preparation Information Benchsheet

Prep Run#: 302022 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/31/17 03:43 PM

20	RQ1711312-05	R1710205-001 DUP	.01	5mL	6010C/Se T	<2			50.00mL	Colorless-Clear		5X
21	R1710205-002	Lot: 1933580	.01	5mL	6010C/Cu T, Se T, Zn T	<2			50.00mL	Colorless-Clear		Cu 1X Se 5X Zn 20X
22	RQ1711312-06	R1710205-002 DUP	.01	5mL	6010C/Se T	<2			50.00mL	Colorless-Clear		5X

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Thermometer	293 (12952)				

Preparation Steps

Step: Digestion
Started: 10/31/17 15:43
Finished: 11/1/17 12:08
By: KMCLAEN
Comments

Comments:

Reviewed By: Nicol [signature] Date: 11/1/17 Spike Witness: NMANSEN Date:

Chain of Custody

Relinquished By: Kelly McJoun Date: 11/01/17
Received By: RAO Date: 11/01/17

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 301956
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711238-01	MB		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd D, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		HB: 7 Well: D1 Temp: 92.5C Corr. Factor: 0.0C Corr. Temp: 92.5C
2	RQ1711238-02	LCS		50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd D, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Sb T, Se T, Sn T, Sr T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.5000 mL/182727; 0.2500 mL/184175; 0.1000 mL/180703; 0.5000 mL/182726; 0.0500 mL/180701	
3	R1710073-023	Dup-1	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
4	R1710073-024	Dup-1 Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
5	R1710073-028	ENSR-11B	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
6	R1710073-029	ENSR-11B Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
7	R1710073-030	MW-4A	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
8	R1710073-031	MW-4A Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
9	R1710073-032	MW-4	.11	50mL	6010C/Ag T, Ba T, Be T, Cd T, Cr T, Cu T, Fe T, Mg T, Mn T, Ni T, Sb T, Zn T	<2			50.00mL	Colorless-Clear		
10	R1710073-033	MW-4 Diss	.01	50mL	6010C/Cd D	<2			50.00mL	Colorless-Clear		
11	R1710163-003	1710241255B ST-7-779	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
12	R1710163-010	1710241308B ST-7-970	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
13	R1710194-001	MW-1A	.10	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		Tier IV
14	R1710194-002	MW-2A	.10	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Preparation Information Benchsheet

Prep Run#: 301956 **Prep WorkFlow:** MetDigAqICP **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** EPA 3005A/3010A **Prep Date/Time:** 10/30/17 03:33 PM

15	RQ1711238-03	R1710194-002 MS	.10	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.2500 mL/184175; 0.0500 mL/180701; 0.5000 mL/182727; 0.1000 mL/180703; 0.5000 mL/182726	
16	RQ1711238-04	R1710194-002 DMS	.10	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear	0.0500 mL/180701; 0.1000 mL/180703; 0.5000 mL/182726; 0.5000 mL/182727; 0.2500 mL/184175	
17	R1710194-003	MW-3A	.10	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
18	R1710194-004	DO-2	.10	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
19	R1710194-005	Dupe	.10	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
20	R1710194-007	Field Blank	.10	50mL	6010C/Ag T, Al T, As T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Na T, Ni T, Pb T, Sb T, Se T, Tl T, V T, Zn T	<2			50.00mL	Colorless-Clear		
21	R1710208-003	1710250920A 400-IV-123	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		
22	R1710208-008	1710251502A 400-HV-147	.01	50mL	6010C/Ag T, Al T, B T, Ba T, Be T, Ca T, Cd T, Co T, Cr T, Cu T, Fe T, K T, Mg T, Mn T, Mo T, Na T, Ni T, Pb T, Se T, Sn T, Sr T, V T, Zn T	<2			50.00mL	Colorless-Clear		

Spiking Solutions

Name:	Selenium 1000 ug/mL Se	Inventory ID	180701	Logbook Ref:	M7080014F	Expires On:	10/12/2018	Lot #:	1635013
Name:	Strontium 1000 ug/mL Sr	Inventory ID	180703	Logbook Ref:	M7080014G	Expires On:	10/12/2018	Lot #:	1610313
Name:	Custom LCS STD A Metals	Inventory ID	182726	Logbook Ref:	M7600001W	Expires On:	07/11/2018	Lot #:	16K061
Name:	Custom LCS STD B Metals	Inventory ID	182727	Logbook Ref:	M7600001X	Expires On:	07/11/2018	Lot #:	16K062
Name:	Tin 1000 ug/mL Sn	Inventory ID	184175	Logbook Ref:	M7600002T	Expires On:	03/31/2019	Lot #:	1713622

Preparation Information Benchsheet

Prep Run#: 301956
Team: Metals/KMCLAEN

Prep WorkFlow: MetDigAqICP
Prep Method: EPA 3005A/3010A

Status: Prepped
Prep Date/Time: 10/30/17 03:33 PM

Preparation Materials

1:1 HCl Metals Grade	M7600003D (184968)	Hot Block Cups	50 mL Lot 1703076 (182080)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Thermometer	293 (12952)				

Preparation Steps

Step: Digestion
Started: 10/30/17 15:33
Finished: 10/31/17 14:39
By: KMCLAEN
Comments

Comments: _____

Reviewed By: Nicol [signature] Date: 10/31/17 Spike Witness: NMANSEN Date: _____

Chain of Custody

Relinquished By: Kim McJean Date: 10/31/17
Received By: RAO1 Date: 10/31/17

Extracts Examined
Yes No

Frequency:

Pipettes: 3 trials for both bias and precision
DOD Projects - Daily before use at each volume of use, or if more than 3 volumes of use, a high, medium, and low.
Non-DOD: Monthly at high, medium, and low.

Repeaters, Dispensers, and Repipettors: 3 trials for both bias and precision
If used for dilutions - Daily before use and each time the volume is changed.
If not used for dilutions - monthly

Calculations:
%Recovery = Mean/Nominal Volume*100
%RSD = Stdev/Volume*100

Limits:
% Recovery: 98-102
%RSD: ≤1 (Pipets); ≤3 (Repeaters, Dispensers, and Repipettors)

Date	Init.	Pipettor ID	Volume (mL)	Trial #1 (g)	Trial #2 (g)	Trial #3 (g)	Mean (g)	Bias %Recovery	Pass/ Fail	Precision %RSD	Pass/ Fail	Recal? Y/N	Balance ID	Comments/ Corrective Action
10/31/17	NM	M35	0.5000	0.4968	0.4974	0.4966	0.4969	99.39%	P	0.083	P	N	R-10	DOD Check
↓	↓	↓	1.0000	0.9993	0.9986	1.0001	0.9993	99.93%	~~P~~	0.075	P	N	↓	↓
		M25	0.0100	0.0099	0.0099	0.0099	0.0099	99%	P	0	P	N		
↓	↓	↓	0.1000	0.0994	0.0998	0.0996	0.0996	99.6%	P	0.2	P	N	↓	
11/1/17	NM	M35	1.0000	0.9991	1.0006	0.9979	0.9992	99.92%	P	0.135	P	N	R-19	DOD Check
↓	↓	↓	0.5000	0.4971	0.4976	0.4959	0.4967	99.37%	P	0.175	P	N	↓	↓
		M25	0.0100	0.0100	0.0099	0.0099	0.0099	99.33%	P	0.577	P	N		
↓	↓	↓	0.1000	0.0996	0.0996	0.0998	0.0997	99.67%	P	0.115	P	N	↓	

Frequency:

Pipettes: 3 trials for both bias and precision
DOD Projects - Daily before use at each volume of use, or if more than 3 volumes of use, a high, medium, and low.
Non-DOD: Monthly at high, medium, and low.

Repeaters, Dispensers, and Repipettors: 3 trials for both bias and precision
If used for dilutions - Daily before use and each time the volume is changed.
If not used for dilutions - monthly

Calculations:
%Recovery = Mean/Nominal Volume*100
%RSD = Stdev/Volume*100

Limits:
% Recovery: 98-102
%RSD: ≤1 (Pipets); ≤3 (Repeaters, Dispensers, and Repipettors)

Date	Init.	Pipettor ID	Volume (mL)	Trial #1 (g)	Trial #2 (g)	Trial #3 (g)	Mean (g)	Bias %Recovery	Pass/ Fail	Precision %RSD	Pass/ Fail	Recal? Y/N	Balance ID	Comments/ Corrective Action
10/25/17	KSM	M26	0.2500	0.2501	0.2489	0.2495	0.2495	99.8	P	0.24	P	N	R-10	DOD check
			0.5000	0.4999	0.4989	0.4996	0.4994	99.89	P	0.102	P	N		
			0.7500	0.7489	0.7491	0.7493	0.7491	99.88	P	0.026	P	N		
			1.0000	0.9991	0.9989	0.9999	0.9993	99.93	P	0.0529	P	N		
		M31	0.0500	0.0500	0.0499	0.0498	0.0499	99.8	P	0.2	P	N		
			0.0950	0.0951	0.0952	0.0950	0.0951	100.13	P	0.13	P	N		
10/26/17	KSM	M31	0.0500	0.0501	0.0500	0.0498	0.0499	99.93	P	0.305	P	N	R-10	DOD check
			0.1000	0.1001	0.1002	0.0999	0.1000	100	P	0.153	P	N		
		M27	0.2500	0.2489	0.2491	0.2493	0.2491	99.64	P	0.08	P	N		
		M23	0.5000	0.4989	0.4999	0.5001	0.4996	99.92	P	0.12	P	N		
10/30/17	NM	M35	0.5000	0.4947	0.4945	0.4948	0.4946	98.93	P	0.0305	P	N	R-19	DOD check → Balance not level. Released Recalibrated
			1.0000	0.9905	0.9964	—								
			1.0000	0.9992	0.9974	1.0011	0.9992	99.92	P	0.185	P	N	R-19	DOD check
			0.5000	0.4966	0.4957	0.4961	0.4959	99.186	P	0.0416	P	N		
		M25	0.0100	0.0101	0.0100	0.0101	0.0100	100.6	P	0.577	P	N		
			0.1000	0.0990	0.0995	0.0994	0.0993	99.3	P	0.269	P	N		
10/30/17	KSM	M23	0.5000	0.4974	0.4973	0.4980	0.4975	99.513	P	0.0757	P	N	R-19	DOD check
													NM 10/31/17	

CK 10/30/17

OPTIMA 3/4/5/6 ICV/CCV (Standard is prepared daily)
(ICV FOR ILM5.3 IS A ½ DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	M7600001S	5000	1.00	200	25.0
	MG		5000			25.0
	K		5000			25.0
	NA		5000			25.0
Cal Std 2	AG	M7600001T	100	1.00		0.500
	CR		100			0.500
	MN		150			0.750
	NI		400			2.00
	ZN		200			1.00
Cal Std 3	AL	M7600001U	2000	1.00		10.0
	BA		2000			10.0
	BE		50			0.250
	CO		500			2.50
	CU		250			1.25
	FE		1000			5.00
	V		500			2.50
Cal Std 4	AS	M7600001F	100	2.00		1.00
	CD		50			0.500
	PB		50			0.500
	SE		50			0.500
	TL		100			1.00
Single Metals	SB	M7600001K	1000	1.00		5.00
	SN	M7600001E	1000	1.00		5.00
	B	M7080011FF	1000	0.500		2.50
	MO	M7080011DD	1000	0.500		2.50
	TI	M7080011EE	1000	0.500		2.50
	SR	M7080014X	1000	0.500		2.50
	P	—	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration 2%	Hydrochloric Acid Lot # / Concentration	Pipet ID
NM 10/5/17	A	M7600002W 10% NM 10/5/17	M7600002I 5%	M34
NM 10/6/17	B	M7600002W 10%	M7600002I 5%	M34
NM 10/9/17	C	M7600002W 2%	M7600002I 5%	M34
NM 10/9/17	D	M7600002W 10%	M7600002I 5%	M34
NM 10/10/17	E	M7600002W 2%	M7600002I 5%	M34
NM 10/11/17	F	M7600002W 2%	M7600002I 5%	M34
NM 10/11/17	G	M7600002W 10%	M7600002I 5%	M34
NM 10/12/17	H	M7600002W 2%	M7600002I 5%	M34
NM 10/12/17	I	M7600002W 10%	M7600002I 5%	M35
NM 10/13/17	J	M7600002W 2%	M7600002I 5%	M34
NM 10/13/17	K	M7600002W 10%	M7600002I 5%	M35
NM 10/16/17	L	M7600002W 10%	M7600002I 5%	M34
NM 10/16/17	M	M7600002W 2%	M7600002I 5%	M34
NM 10/17/17	N	M7600002W 10%	M7600002I 5%	M34
NM 10/18/17	O	M7600002W 10%	M7600002I 5%	M35
NM 10/19/17	P	M7600002W 2%	M7600002I 5%	M35
NM 10/19/17	Q	M7600002W 10%	M7600002I 5%	M35
NM 10/20/17	R	M7600002W 2%	M7600003D 5%	M35
NM 10/20/17	S	M7600002W 10%	M7600003D 5% NM 10/20/17	M35
CK 10/24/17	T	M7600002W 2%	M7600003D 5%	M35
CK 10/25/17	U	M7600002W 2%	M7600003D 5%	M35
CK 10/25/17	V	M7600002W 10%	M7600003D 5%	M35
CK 10/26/17	W	M7600002W 2%	M7600003D 5%	M35
CK 10/27/17	X	M7600002W 2%	M7600003D 5%	M35
NM 10/30/17	Y	M7600002W 10%	M7600003D 5%	M35
NM 10/31/17	Z	M7600002W 10%	M7600003D 5%	M35
NM 11/1/17	AA	M7600002W 2%	M7600003D 5%	M35
NM 11/1/17	BB	M7600002W 10%	M7600003D 5%	M35

✓ NM 10/30/17

OPTIMA 3/4/6 INTERNAL STANDARD (ADDED ON-LINE)

Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Hydro-chloric Acid Lot #	Expiration Date	Pipet ID
Y	M7080009L	10000	2.0	2000	10.0	5 % HCl 2%HNO3	NM 8/7/17	A	M7600001L	M7080014DD	11/26/17	M34
CS	M7080009K	10000	2.0		10.0		NM 8/1/17	B	M7600001L	M7600001P	11/26/17	M34
							NM 8/15/17	C	M7600001L	M7600001P	11/26/17	M34
							NM 8/23/17	D	M7600001L	M7600001P	11/26/17	M34
							NM 8/29/17	E	M7600001L	M7600001P	11/26/17	M34
							NM 9/6/17	F	M7600001L	M7600001P	11/26/17	M34
							NM 9/11/17	G	M7600001L	M7600002I	11/26/17	M34
							NM 9/15/17	H	M7600001L	M7600002I	11/26/17	M34
							NM 9/25/17	I	M7600001L	M7600002I	11/26/17	M34
							NM 9/29/17	J	M7600002W	M7600002I	11/26/17	M34
							NM 10/10/17	K	M7600002W	M7600002I	11/26/17	M34
							NM 10/16/17	L	M7600002W	M7600002I	11/26/17	M35
							NM 10/20/17	M	M7600002W	M7600003D	11/26/17	M35
							NM 11/1/17	N	M7600002W	M7600003D	11/26/17	
								O				
								P				
								Q		NM 11/1/17		
								R				
								S				
								T				
								V				

JCR 10/30/17

OPTIMA 3/5/6 ICSAB STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M708001AM	Multi	25	500	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250
Int. B Sol'n	M708001BQ	Multi	5		Multi
AG		20			0.200
BA		50			0.500
BE		50			0.500
CD		100			1.00
CO		50			0.500
CR		50			0.500
CU		50			0.500
MN		50			0.500
NI		100			1.00
PB		5			0.0500
V		50			0.500
ZN		100			1.00
AS		10			0.100
SB		60			0.600
SE		5			0.0500
TL		10			0.100

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 8/8/17	A	M7600001L 2%	M708001400 5%	2/8/18	Volumetric
NM 8/8/17	B	M7600001L 10%	M708001400 5%	2/8/18	Volumetric
NM 8/31/17	C	M7600001L 2%	M7600001P 5%	2/28/18	Volumetric
NM 8/31/17	D	M7600001L 10%	M7600001P 5%	2/28/18 NM 8/31/17	Volumetric
NM 9/15/17	E	M7600001L 2%	M7600002I 5%	3/15/18	Volumetric
NM 9/15/17	F	M7600001L 10%	M7600002I 5%	3/15/18	Volumetric
NM 10/13/17	G	M7600002W 2%	M7600002I 5%	4/13/18	Volumetric
NM 10/13/17	H	M7600002W 10%	M7600002I 5%	4/13/18	Volumetric
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

OK 10/30/17

OPTIMA 3/5/6 ICSA STANDARD (Standard is prepared every 6 months or as necessary)

Element	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Int. A Sol'n	M708001HM	Multi	50	1000	Multi
AL		5000			250
CA		5000			250
FE		2000			100
MG		5000			250

Analyst/ Date	ID Letter	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 8/8/17	A	M760000IL 2%	M708004H00 5%	2/8/17	Volumetric
NM 8/22/17	B	M760000IL 10%	M760000IP 5% ~~M708004 NM 8/22/17~~	2/22/17	Volumetric
NM 9/15/17	C	M760000IL 2%	M760000QI 5%	3/15/17	Volumetric
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				

NM 10/13/17

OPTIMA 3/4/5/6 MRL (Standard is prepared every 6 months or as needed)

	Metal	ALS Lot # NM 8/22/17	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 1	CA	~~M170800135~~	5000	0.200	1000	1.00
	MG	M170800126E	5000			1.00
	K		5000			1.00
	NA		5000			1.00
Cal Std 2	AG	M170800137	100	0.100		0.0100
	CR		100			0.0100
	MN		150			0.0150
	NI		400			0.0400
	ZN		200			0.0200
Cal Std 3	AL	M170800146	2000	0.100		0.200
	BA		2000			0.200
	BE		50			0.0050
	CO		500			0.0500
	CU		250			0.0250
	FE		1000			0.100
	V		500			0.0500
Cal Std 4	AS	M17600001I	100	0.200		0.0200
	CD		50			0.0100
	PB		50			0.0100
	SE		50			0.0100
	TL		100			0.0200
Single Metals	B	M170800122	1000	0.200		0.200
	MO	M170800107	1000	0.025		0.0250
	SN	M17600001H	1000	0.500		0.500
	TI	M170800137R	1000	0.050		0.0500
	SB	M170800118B	1000	0.060		0.0600
	SR	M170800146	1000	0.100		0.100
	P	-	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot# / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
NM 8/22/17	A	M17600001L 10%	M17600001D 5%	2/17/18	M25/M3
NM 9/15/17	B	M17600001L 10%	M17600001F 5%	2/17/18	M25/M3
NM 9/15/17	C	M17600001L 2%	M17600001P 5%	2/17/18	M25/M3
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 3/4/5/6 HLCCV3
(Standard is prepared biweekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Elements	CA	M70800013D	10000	2.00	100	200
	CU	M7600001A	1000	0.40		4.00
	FE	M7600001C	10000	0.40		40.0
	K	M70800014AA	10000	1.00		100
	TL	M7600001N	1000	0.30		3.00

Analyst / Date	Letter ID	Nitric Acid Lot #/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
NM 3/9/17	A	M7600001L 2%	M7600001P 5%	5/23/17	M34
NM 3/9/17	B	M7600001L 10%	M7600001P 5%	5/23/17	M34
NM 3/24/17	C	M7600001L 2%	M7600001P 5%	9/7/17	M34
NM 3/24/17	D	M7600001L 10%	M7600001P 5%	9/7/17	M34
NM 9/8/17	E	M7600001L 2%	M7600001P 5%	9/22/17	M34
NM 9/8/17	F	M7600001L 10%	M7600001P 5%	9/22/17	M34
NM 9/25/17	G	M7600001L 2%	M7600002I 5%	10/4/17	M34
NM 9/25/17	H	M7600001L 10%	M7600002I 5%	10/4/17	M34
NM 10/10/17	I	M7600002W 2%	M7600002I 5%	10/24/17	M34
NM 10/10/17	J	M7600002W 10%	M7600002I 5%	10/24/17	M34
CK 10/25/17	K	M7600002W 2%	M7600003D 5%	11/8/17	M35
CK 10/25/17	L	M7600002W 10%	M7600003D 5% CK 10/25/17	~~11/8/17~~ 11/8/17	M35
	M				
	N				
	O				
	P				
	Q				
	R				
	S				

OPTIMA 3/4/6 HLCCV2 (Standard is prepared every 2 weeks or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M708D012M	100	2.00	100	2.00
	CR		100			Below
	MN		150			Below
	NI		400			8.00
	ZN		200			4.00
Cal Std 3	AL	M760D001R	2000	2.00		Below
	BA		2000			40.0
	BE		50			1.00
	CO, V		500			10.0
	CU		250			5.00
	FE		1000			Below
Cal Std 4	AS, TL	M760 0001 I	100	4.00		4.00
	CD, SE		50			2.00
	PB		50			Below
Single Metals	B	M708D012Z	1000	1.00		10.0
	MO	M708D010V	1000	1.00		10.0
	TI	M708D013R	1000	1.00		10.0
	SR	M708D014G	1000	1.00		10.0
	CA	M708D013D	10000	2.50		250
	MG	M708D013F	10000	5.00		500
	NA	M708D014Z	10000	1.50		150
	CR	M708D012P	1000	0.800		10.0
	FE	M760D001C	10000	0.300		50
	AL ~~M760~~ M708D011GG		10000	4.60		500
	MN	M708D011R	1000	0.700		10.00
	PB	M708D011S	1000	0.800		10.0
	K	M708D014AA	10000	1.50		150

Analyst/ Date	Letter ID	Nitric Acid Lot # / Concentration	Hydrochloric Acid Lot # / Concentration	Expiration Date	Pipet ID
CK 10/25/17	A	M760D002W 2%	M760D003D 5%	11/8/17	M35
CK 10/25/17	B	M760D002W 10%	M760D003D 5%	11/8/17	M35
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				

OPTIMA 3/4/5/6 CALIBRATION STANDARD #5 / HLCCV1 (Standard is prepared weekly or as necessary)
(CALIBRATION STANDARD #3 IS A 1/100 DILUTION OF THIS STANDARD)
(CALIBRATION STANDARD #4 IS A 1/5 DILUTION OF THIS STANDARD)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std 2	AG	M708D012M	100	2.00	200	1.00
	CR		100			1.00
	MN		150			1.50
	NI		400			4.00
	ZN		200			2.00
Cal Std 3	AL	M7600DD01B	2000	2.00		20.0
	BA		2000			20.0
	BE		50			0.500
	CO		500			5.00
	CU		250			2.50
	FE		1000			10.0
	V		500			5.00
Cal Std 4	AS	M7600001I	100	4.00		2.00
	CD		50			1.00
	PB		50			1.00
	SE		50			1.00
	TL		100			2.00
Single Metals	CA	M708DD14Y	10000	1.00		50.0
	MG	M7600002H	10000	1.00		50.0
	K	M708D014AA	10000	1.00		50.0
	NA	M708D014Z	10000	1.00		50.0
	SB	M7600001G	1000	2.00		10.0
	SN	M7600DD02T	1000	2.00		10.0
	B	M708D012Z	1000	1.00		5.00
	MO	M708DD1DV	1000	1.00		5.00
	TI	M708D013R	1000	1.00		5.00
	SR	M708D014G	1000	1.00		5.00

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ Concentration	Expiration Date	Pipet ID
CK 10/26/17	A	M760D002W 2%	M760D003D 5%	11/2/17	M35
CK 10/26/17	B	M760DD02W 10%	M760D003D 5%	11/2/17	M35
CK 10/30/17	C	M760DD02W 2%	M760D003D 5%	11/6/17	M35
CK 10/30/17	D	M760DD02W 10%	M760D003D 5%	11/6/17	M35
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				
	AA				
	BB				

OPTIMA 3,4,5,6 CALIBRATION STANDARD #2
(Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Single Element	AL	M760D001J	1000	0.100	1000	0.100
	AS	M708D011X	1000	0.010		0.010
	B	M708D012Z	1000	0.200		0.200
	BE	M708D012V (1/10)	100	0.030		0.003
	CA	M708D013D	10000	0.100		1.00
	CD	M708D01DN (1/10)	100	0.050		0.005
	CU	M760D001A	1000	0.020		0.020
	K	M708D014AA	10000	0.200		2.00
	MG	M708D013F	10000	0.100		1.00
	NA	M708D014Z	10000	0.100		1.00
	PB	M708D011S	1000	0.050		0.050
	SB	M760D001G	1000	0.060		0.060
	SE	M708D014F	1000	0.010		0.010
	SN	M760D002T	1000	0.500		0.500

Analyst/ Date	Letter ID	Nitric Acid Lot#	Hydrochloric Acid Lot #	Expiration Date	Pipet ID
CK 10/25/17	A	M760D002W 2%	M760D003D 5%	11/1/17	M345/M25
CK 10/25/17	B	M760D002W 10%	M760D003D 5%	11/1/17	M345/M25
	C				
	D				
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

OPTIMA 3,4,5,6 CALIBRATION STANDARD #1 (Standard is prepared weekly or as necessary)

	Metal	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)
Cal Std. 1 Int.	AL	M762000 1C	20.0	1.00	1000	0.020
	AS		5.00			0.0050
	CD		1.00			0.0010
	CO		3.00			0.0030
	CR		5.00			0.0050
	PB		5.00			0.0050
	V		3.00			0.0030
Cal Std. 1	CA	M708 0012EE	5000	0.100		0.500
	K		5000			BELOW
	MG		5000			0.500
	NA		5000			0.500
Single Element	BA	M708 0014BB	1000	0.020		0.020
	CU	M760000 1A	1000	0.010		0.010
	K	M708 0014AA	10000	0.150		2.00
	MN	M708 0011R	1000	0.010		0.010
	MO	M708 0010V	1000	0.025		0.025
	SB	M760000 1G	1000	0.010		0.010
	TL	M760000 1N	1000	0.010		0.010
	ZN	M708 0009Y	1000	0.010		0.010
	P	—	1000	0.100		0.100

Analyst/ Date	Letter ID	Nitric Acid Lot#/ Concentration	Hydrochloric Acid Lot #/ CK 10/24/17 Concentration	Expiration Date	Pipet ID
CK 10/24/17	A	M760000 2W 2%	M760000 ~~2~~ 3D 5%	10/31/17	M35/M25
CK 10/24/17	B	M760000 2W 10%	M760000 ~~2~~ 3D 5%	10/31/17	M35/M25
NM 11/1/17	C	M7600002W 2%	M7600003D 5%	11/8/17	M35/M25
NM 11/1/17	D	M7600002W 10%	M7600003D 5%	11/8/17	M35/M25
	E				
	F				
	G				
	H				
	I				
	J				
	K				
	L				
	M				
	N				
	O				
	P				
	Q				
	R				
	S				
	T				
	U				
	V				
	W				
	X				
	Y				
	Z				

√ NM 10/20/17

Sample Dilutions

Analyst: NM Date 11/1/17

Instrument: ICP6 Analysis 6010C

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	HNO3/HCL	3	3	1/2												
1/3	HNO3/HCL	3	6	1/3												
1/4	HNO3/HCL	2	6	1/4												
1/5	HNO3/HCL	2	8	1/5												
1/10	HNO3/HCL	1	9	1/10												
1/20	HNO3/HCL	3	3	1/2	1	9	1/20									
1/30	HNO3/HCL	3	6	1/3	1	9	1/30									
1/40	HNO3/HCL	1	3	1/4	1	9	1/40									
1/50	HNO3/HCL	1	4	1/5	1	9	1/50									
1/100	HNO3/HCL	1	9	1/10	1	9	1/100									
1/200	HNO3/HCL	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	HNO3/HCL	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	HNO3/HCL	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	HNO3/HCL	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	HNO3/HCL	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	HNO3/HCL	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	HNO3/HCL	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	HNO3/HCL	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	HNO3/HCL	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	HNO3/HCL	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	HNO3/HCL	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	HNO3/HCL	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568460 **Method/Testcode:** 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1710073-009	Iron, Total	N/A		Water	5.62 ppm	50 mL	56200 µg/L	10	800	1000			11/1/17 18:10:40	N	IV
RQ1711245-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			11/1/17 18:17:19	N	IV
RQ1711245-02	Manganese, Total	LCS		Water	0.49 ppm	50 mL	494 µg/L	1	5	10	99		11/1/17 18:20:38	N	IV
R1710031-019	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			11/1/17 18:23:57	N	II

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568461 **Method/Testcode:** 6010C/Mn D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711248-01	Manganese, Dissolved	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			11/1/17 18:30:35	N	II
RQ1711248-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			11/1/17 18:30:35	N	II
RQ1711248-02	Manganese, Dissolved	LCS		Water	0.49 ppm	50 mL	495 µg/L	1	5	10	99		11/1/17 18:33:53	N	II
RQ1711248-02	Manganese, Total	LCS		Water	0.49 ppm	50 mL	495 µg/L	1	5	10	99		11/1/17 18:33:53	N	II
R1710054-001	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			11/1/17 18:43:49	N	II
RQ1711248-03	Manganese, Total	MS	R1710054-001	Water	0.50 ppm	50 mL	500 µg/L	1	5	10	100		11/1/17 18:47:09	N	II
RQ1711248-04	Manganese, Total	DMS	R1710054-001	Water	0.50 ppm	50 mL	500 µg/L	1	5	10	100	<1	11/1/17 18:50:28	N	II
R1710054-002	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			11/1/17 19:00:27	N	II
R1710054-004	Manganese, Total	N/A		Water	0.75 ppm	50 mL	755 µg/L	1	5	10			11/1/17 19:03:47	N	II
R1710054-006	Manganese, Total	N/A		Water	0.30 ppm	50 mL	305 µg/L	1	5	10			11/1/17 19:07:06	N	II
R1710054-008	Calcium, Total	N/A		Water	26.67 ppm	50 mL	267000 µg/L	10	4000	10000			11/1/17 19:10:25	N	II
R1710054-008	Manganese, Total	N/A		Water	0.05 ppm	50 mL	49 µg/L	1	5	10			11/1/17 19:13:44	N	II
R1710054-010	Manganese, Total	N/A		Water	0.10 ppm	50 mL	102 µg/L	1	5	10			11/1/17 19:23:41	N	II
R1710054-012	Calcium, Total	N/A		Water	35.75 ppm	50 mL	357000 µg/L	10	4000	10000			11/1/17 19:27:00	N	II
R1710054-012	Manganese, Total	N/A		Water	0.04 ppm	50 mL	39 µg/L	1	5	10			11/1/17 19:30:19	N	II
R1710113-001	Calcium, Total	N/A		Water	39.19 ppm	50 mL	392000 µg/L	10	4000	10000			11/1/17 19:33:38	N	IV
R1710113-001	Manganese, Total	N/A		Water	0.29 ppm	50 mL	2950 µg/L	10	50	100			11/1/17 19:33:38	N	IV
R1710113-001	Thallium, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	10	60	100			11/1/17 19:33:38	N	IV
R1710113-003	Iron, Dissolved	N/A		Water	14.76 ppm	50 mL	1480000 µg/L	100	8000	10000			11/1/17 19:40:16	N	IV
R1710113-003	Calcium, Dissolved	N/A		Water	43.71 ppm	50 mL	437000 µg/L	10	4000	10000			11/1/17 19:43:35	N	IV
R1710113-003	Magnesium, Dissolved	N/A		Water	63.08 ppm	50 mL	631000 µg/L	10	3000	10000			11/1/17 19:43:35	N	IV
R1710113-003	Manganese, Dissolved	N/A		Water	2.11 ppm	50 mL	21100 µg/L	10	50	100			11/1/17 19:43:35	N	IV
R1710113-003	Potassium, Dissolved	N/A		Water	14.26 ppm	50 mL	143000 µg/L	10	3000	20000			11/1/17 19:43:35	N	IV
R1710113-003	Thallium, Dissolved	N/A		Water	-0.01 ppm	50 mL	100 µg/L U	10	60	100			11/1/17 19:43:35	N	IV
R1710113-003	Lead, Dissolved	N/A		Water	0.01 ppm	50 mL	50 µg/L U	1	4	50			11/1/17 19:50:14	N	IV
R1710113-002	Iron, Total	N/A		Water	12.80 ppm	50 mL	1280000 µg/L	100	8000	10000			11/1/17 19:53:33	N	IV
R1710113-002	Calcium, Total	N/A		Water	41.43 ppm	50 mL	414000 µg/L	10	4000	10000			11/1/17 20:03:29	N	IV
R1710113-002	Manganese, Total	N/A		Water	1.84 ppm	50 mL	18400 µg/L	10	50	100			11/1/17 20:03:29	N	IV
R1710113-002	Potassium, Total	N/A		Water	13.11 ppm	50 mL	131000 µg/L	10	3000	20000			11/1/17 20:03:29	N	IV
R1710113-002	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	100 µg/L U	10	60	100			11/1/17 20:03:29	N	IV
R1710113-002	Selenium, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	2	7	20			11/1/17 20:06:48	N	IV
R1710113-004	Iron, Total	N/A		Water	12.65 ppm	50 mL	1260000 µg/L	100	8000	10000			11/1/17 20:13:26	N	IV
R1710113-004	Calcium, Total	N/A		Water	41.50 ppm	50 mL	415000 µg/L	10	4000	10000			11/1/17 20:16:45	N	IV
R1710113-004	Manganese, Total	N/A		Water	1.83 ppm	50 mL	18300 µg/L	10	50	100			11/1/17 20:16:45	N	IV
R1710113-004	Potassium, Total	N/A		Water	13.26 ppm	50 mL	133000 µg/L	10	3000	20000			11/1/17 20:16:45	N	IV
R1710113-004	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	100 µg/L U	10	60	100			11/1/17 20:16:45	N	IV

t indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568461 **Method/Testcode:** 6010C/Fe D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710113-005	Iron, Dissolved	N/A		Water	11.95 ppm	50 mL	1190000 µg/L	100	8000	10000			11/1/17 20:23:24	N	IV
1710113-005	Calcium, Dissolved	N/A		Water	43.88 ppm	50 mL	439000 µg/L	10	4000	10000			11/1/17 20:26:43	N	IV
1710113-005	Manganese, Dissolved	N/A		Water	1.73 ppm	50 mL	17300 µg/L	10	50	100			11/1/17 20:26:43	N	IV
1710113-005	Potassium, Dissolved	N/A		Water	13.09 ppm	50 mL	131000 µg/L	10	3000	20000			11/1/17 20:26:43	N	IV
1710113-005	Thallium, Dissolved	N/A		Water	-0.02 ppm	50 mL	20 µg/L U	2	11	20			11/1/17 20:36:40	N	IV
1710113-005	Selenium, Dissolved	N/A		Water	0.02 ppm	50 mL	19 µg/L	1	4	10			11/1/17 20:40:00	N	IV
1710113-006	Calcium, Total	N/A		Water	114.48 ppm	50 mL	1140000 µg/L	10	4000	10000			11/1/17 20:43:19	N	IV
1710113-006	Iron, Total	N/A		Water	22.89 ppm	50 mL	229000 µg/L	10	800	1000			11/1/17 20:43:19	N	IV
1710113-006	Lead, Total	N/A		Water	2.74 ppm	50 mL	27400 µg/L	10	40	500			11/1/17 20:43:19	N	IV
1710113-006	Manganese, Total	N/A		Water	0.35 ppm	50 mL	3490 µg/L	10	50	100			11/1/17 20:43:19	N	IV
1710113-006	Potassium, Total	N/A		Water	11.77 ppm	50 mL	118000 µg/L	10	3000	20000			11/1/17 20:43:19	N	IV
1710113-007	Calcium, Dissolved	N/A		Water	91.56 ppm	50 mL	916000 µg/L	10	4000	10000			11/1/17 20:46:38	N	IV
1710113-007	Iron, Dissolved	N/A		Water	10.60 ppm	50 mL	106000 µg/L	10	800	1000			11/1/17 20:46:38	N	IV
1710113-007	Lead, Dissolved	N/A		Water	1.29 ppm	50 mL	12900 µg/L	10	40	500			11/1/17 20:46:38	N	IV
1710113-007	Manganese, Dissolved	N/A		Water	0.20 ppm	50 mL	2020 µg/L	10	50	100			11/1/17 20:46:38	N	IV
1710113-007	Selenium, Dissolved	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 20:49:57	N	IV
1710200-001	Potassium, Total	N/A		Water	14.04 ppm	50 mL	140000 µg/L	10	3000	20000			11/1/17 20:53:16	N	II
1710200-001	Sodium, Total	N/A		Water	51.73 ppm	50 mL	517000 µg/L	10	4000	10000			11/1/17 20:53:16	N	II
1710200-001	Manganese, Total	N/A		Water	0.78 ppm	50 mL	777 µg/L	1	5	10			11/1/17 20:56:35	N	II
1710200-003	Manganese, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L U	1	5	10			11/1/17 20:59:54	N	II
1710054-013	Manganese, Total	N/A		Water	0.81 ppm	50 mL	814 µg/L	1	5	10			11/1/17 21:03:13	N	II

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568462 **Method/Testcode:** 6010C/Al D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711311-05	Aluminum, Dissolved	MB		Water	0.01 ppm	50 mL	100 µg/L U	1	100	100			11/1/17 21:56:22	N	II
RQ1711311-01	Aluminum, Dissolved	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	100	100			11/1/17 21:59:41	N	II
RQ1711311-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 21:59:41	N	II
RQ1711311-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 21:59:41	N	II
RQ1711311-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			11/1/17 21:59:41	N	II
RQ1711311-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 21:59:41	N	II
RQ1711311-01	Cadmium, Dissolved	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 21:59:41	N	II
RQ1711311-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 21:59:41	N	II
RQ1711311-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 21:59:41	N	II
RQ1711311-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 21:59:41	N	II
RQ1711311-01	Iron, Total	MB		Water	-0.01 ppm	50 mL	100 µg/L U	1	80	100			11/1/17 21:59:41	N	II
RQ1711311-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/1/17 21:59:41	N	II
RQ1711311-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			11/1/17 21:59:41	N	II
RQ1711311-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 21:59:41	N	II
RQ1711311-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 21:59:41	N	II
RQ1711311-01	Sodium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	400	1000			11/1/17 21:59:41	N	II
RQ1711311-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 21:59:41	N	II
RQ1711311-02	Aluminum, Dissolved	LCS		Water	1.90 ppm	50 mL	1900 µg/L	1	100	100	95		11/1/17 22:03:00	N	II
RQ1711311-02	Antimony, Total	LCS		Water	0.50 ppm	50 mL	503 µg/L	1	8	60	101		11/1/17 22:03:00	N	II
RQ1711311-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	40.9 µg/L	1	4	10	102		11/1/17 22:03:00	N	II
RQ1711311-02	Barium, Total	LCS		Water	2.12 ppm	50 mL	2120 µg/L	1	13	20	106		11/1/17 22:03:00	N	II
RQ1711311-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	51.4 µg/L	1	0.7	3.0	103		11/1/17 22:03:00	N	II
RQ1711311-02	Cadmium, Dissolved	LCS		Water	0.05 ppm	50 mL	52.4 µg/L	1	0.9	5.0	105		11/1/17 22:03:00	N	II
RQ1711311-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	52.4 µg/L	1	0.9	5.0	105		11/1/17 22:03:00	N	II
RQ1711311-02	Chromium, Total	LCS		Water	0.20 ppm	50 mL	203 µg/L	1	3	10	101		11/1/17 22:03:00	N	II
RQ1711311-02	Copper, Total	LCS		Water	0.25 ppm	50 mL	251 µg/L	1	10	20	100		11/1/17 22:03:00	N	II
RQ1711311-02	Iron, Total	LCS		Water	0.99 ppm	50 mL	994 µg/L	1	80	100	99		11/1/17 22:03:00	N	II
RQ1711311-02	Lead, Total	LCS		Water	0.52 ppm	50 mL	522 µg/L	1	4	50	104		11/1/17 22:03:00	N	II
RQ1711311-02	Magnesium, Total	LCS		Water	2.03 ppm	50 mL	2030 µg/L	1	300	1000	102		11/1/17 22:03:00	N	II
RQ1711311-02	Nickel, Total	LCS		Water	0.52 ppm	50 mL	522 µg/L	1	9	40	104		11/1/17 22:03:00	N	II
RQ1711311-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	50.5 µg/L	1	2	10	101		11/1/17 22:03:00	N	II
RQ1711311-02	Sodium, Total	LCS		Water	20.11 ppm	50 mL	20100 µg/L	1	400	1000	101		11/1/17 22:03:00	N	II
RQ1711311-02	Zinc, Total	LCS		Water	0.52 ppm	50 mL	516 µg/L	1	7	20	103		11/1/17 22:03:00	N	II
R1710088-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 22:06:18	N	II
R1710088-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 22:09:38	Y	II
RQ1711311-03	Arsenic, Total	MS	R1710088-002	Water	0.05 ppm	50 mL	46 µg/L	1	4	10	115		11/1/17 22:19:33	N	II

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568462 **Method/Testcode:** 6010C/As T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711311-04	Arsenic, Total	DMS	R1710088-002	Water	0.04 ppm	50 mL	42 µg/L	1	4	10	105	9	11/1/17 22:22:52	N	II
R1710088-003	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/1/17 22:32:49	N	II
R1710088-004	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	4	10			11/1/17 22:36:08	N	II
R1710211-001	Iron, Total	N/A		Water	0.79 ppm	50 mL	790 µg/L	1	80	100			11/1/17 22:39:27	N	II
R1710211-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/1/17 22:39:27	N	II
R1710211-001	Sodium, Total	N/A		Water	17.32 ppm	50 mL	17300 µg/L	1	400	1000			11/1/17 22:39:27	N	II
R1710211-002	Aluminum, Dissolved	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	100	100			11/1/17 22:42:47	N	II
R1710211-003	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			11/1/17 22:46:05	N	II
R1710211-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/1/17 22:46:05	N	II
R1710211-003	Sodium, Total	N/A		Water	16.88 ppm	50 mL	16900 µg/L	1	400	1000			11/1/17 22:46:05	N	II
R1710211-004	Aluminum, Dissolved	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	100	100			11/1/17 22:49:24	N	II
R1710236-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 22:59:19	N	IV
R1710236-001	Barium, Total	N/A		Water	0.02 ppm	50 mL	24 µg/L	1	13	20			11/1/17 22:59:19	N	IV
R1710236-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 22:59:19	N	IV
R1710236-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 22:59:19	N	IV
R1710236-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 22:59:19	N	IV
R1710236-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 22:59:19	N	IV
R1710236-001	Iron, Total	N/A		Water	0.29 ppm	50 mL	290 µg/L	1	80	100			11/1/17 22:59:19	N	IV
R1710236-001	Magnesium, Total	N/A		Water	1.47 ppm	50 mL	1500 µg/L	1	300	1000			11/1/17 22:59:19	N	IV
R1710236-001	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 22:59:19	N	IV
R1710236-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 22:59:19	N	IV
R1710236-001	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 22:59:19	N	IV
R1710236-002	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 23:02:38	N	IV
R1710236-003	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 23:05:56	N	IV
R1710236-003	Barium, Total	N/A		Water	0.31 ppm	50 mL	314 µg/L	1	13	20			11/1/17 23:05:56	N	IV
R1710236-003	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 23:05:56	N	IV
R1710236-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 23:05:56	N	IV
R1710236-003	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 23:05:56	N	IV
R1710236-003	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 23:05:56	N	IV
R1710236-003	Iron, Total	N/A		Water	20.29 ppm	50 mL	20300 µg/L	1	80	100			11/1/17 23:05:56	N	IV
R1710236-003	Magnesium, Total	N/A		Water	20.74 ppm	50 mL	20700 µg/L	1	300	1000			11/1/17 23:05:56	N	IV
R1710236-003	Nickel, Total	N/A		Water	0.04 ppm	50 mL	42 µg/L	1	9	40			11/1/17 23:05:56	N	IV
R1710236-003	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 23:05:56	N	IV
R1710236-003	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 23:05:56	N	IV
R1710236-004	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 23:09:15	N	IV
R1710236-005	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 23:12:34	N	IV

F indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568462 **Method/Testcode:** 6010C/Ba T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710236-005	Barium, Total	N/A		Water	0.06 ppm	50 mL	64 µg/L	1	13	20			11/1/17 23:12:34	N	IV
1710236-005	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 23:12:34	N	IV
1710236-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 23:12:34	N	IV
1710236-005	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 23:12:34	N	IV
1710236-005	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 23:12:34	N	IV
1710236-005	Iron, Total	N/A		Water	31.37 ppm	50 mL	31400 µg/L	1	80	100			11/1/17 23:12:34	N	IV
1710236-005	Magnesium, Total	N/A		Water	9.57 ppm	50 mL	9600 µg/L	1	300	1000			11/1/17 23:12:34	N	IV
1710236-005	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 23:12:34	N	IV
1710236-005	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 23:12:34	N	IV
1710236-005	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 23:12:34	N	IV
1710236-006	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 23:15:53	N	IV
1710236-007	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 23:19:11	N	IV
1710236-007	Barium, Total	N/A		Water	0.15 ppm	50 mL	153 µg/L	1	13	20			11/1/17 23:19:11	N	IV
1710236-007	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 23:19:11	N	IV
1710236-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 23:19:11	N	IV
1710236-007	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 23:19:11	N	IV
1710236-007	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 23:19:11	N	IV
1710236-007	Iron, Total	N/A		Water	17.34 ppm	50 mL	17300 µg/L	1	80	100			11/1/17 23:19:11	N	IV
1710236-007	Magnesium, Total	N/A		Water	11.37 ppm	50 mL	11400 µg/L	1	300	1000			11/1/17 23:19:11	N	IV
1710236-007	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 23:19:11	N	IV
1710236-007	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 23:19:11	N	IV
1710236-007	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 23:19:11	N	IV
1710236-008	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 23:22:30	N	IV
1710236-009	Antimony, Total	N/A		Water	-0.01 ppm	50 mL	60 µg/L U	1	8	60			11/1/17 23:25:49	N	IV
1710236-009	Barium, Total	N/A		Water	0.01 ppm	50 mL	15 µg/L J	1	13	20			11/1/17 23:25:49	N	IV
1710236-009	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/1/17 23:25:49	N	IV
1710236-009	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 23:25:49	N	IV
1710236-009	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/1/17 23:25:49	N	IV
1710236-009	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/1/17 23:25:49	N	IV
1710236-009	Iron, Total	N/A		Water	0.52 ppm	50 mL	520 µg/L	1	80	100			11/1/17 23:25:49	N	IV
1710236-009	Magnesium, Total	N/A		Water	13.00 ppm	50 mL	13000 µg/L	1	300	1000			11/1/17 23:25:49	N	IV
1710236-009	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/1/17 23:25:49	N	IV
1710236-009	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/1/17 23:25:49	N	IV
1710236-009	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/1/17 23:25:49	N	IV
1710236-010	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/1/17 23:29:08	N	IV

f indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568463 **Method/Testcode:** 6010C/Sb T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711312-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 00:08:56	N	IV
RQ1711312-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 00:08:56	N	IV
RQ1711312-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 00:08:56	N	IV
RQ1711312-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			11/2/17 00:08:56	N	IV
RQ1711312-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 00:08:56	N	IV
RQ1711312-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 00:08:56	N	IV
RQ1711312-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/2/17 00:08:56	N	IV
RQ1711312-02	Antimony, Total	LCS		Water	0.49 ppm	50 mL	493 µg/L	1	8	60	99		11/2/17 00:12:14	N	IV
RQ1711312-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	49.8 µg/L	1	0.9	5.0	100		11/2/17 00:12:14	N	IV
RQ1711312-02	Copper, Total	LCS		Water	0.25 ppm	50 mL	246 µg/L	1	10	20	98		11/2/17 00:12:14	N	IV
RQ1711312-02	Iron, Total	LCS		Water	0.95 ppm	50 mL	951 µg/L	1	80	100	95		11/2/17 00:12:14	N	IV
RQ1711312-02	Lead, Total	LCS		Water	0.50 ppm	50 mL	505 µg/L	1	4	50	101		11/2/17 00:12:14	N	IV
RQ1711312-02	Selenium, Total	LCS		Water	1.02 ppm	50 mL	1020 µg/L	1	4	10	101		11/2/17 00:12:14	N	IV
RQ1711312-02	Zinc, Total	LCS		Water	0.50 ppm	50 mL	496 µg/L	1	7	20	99		11/2/17 00:12:14	N	IV
R1710078-002	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 00:15:33	Y	IV
R1710078-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 00:15:33	Y	IV
R1710078-002	Iron, Total	N/A		Water	0.36 ppm	50 mL	360 µg/L	1	80	100			11/2/17 00:15:33	Y	IV
R1710078-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 00:15:33	Y	IV
RQ1711312-03	Antimony, Total	MS	R1710078-002	Water	0.53 ppm	50 mL	532 µg/L	1	8	60	106		11/2/17 00:18:52	N	IV
RQ1711312-03	Cadmium, Total	MS	R1710078-002	Water	0.05 ppm	50 mL	47.0 µg/L	1	0.9	5.0	94		11/2/17 00:18:52	N	IV
RQ1711312-03	Iron, Total	MS	R1710078-002	Water	1.32 ppm	50 mL	1320 µg/L	1	80	100	96		11/2/17 00:18:52	N	IV
RQ1711312-03	Lead, Total	MS	R1710078-002	Water	0.48 ppm	50 mL	483 µg/L	1	4	50	97		11/2/17 00:18:52	N	IV
RQ1711312-04	Antimony, Total	DMS	R1710078-002	Water	0.52 ppm	50 mL	524 µg/L	1	8	60	105	2	11/2/17 00:22:11	N	IV
RQ1711312-04	Cadmium, Total	DMS	R1710078-002	Water	0.05 ppm	50 mL	46.8 µg/L	1	0.9	5.0	94	<1	11/2/17 00:22:11	N	IV
RQ1711312-04	Iron, Total	DMS	R1710078-002	Water	1.30 ppm	50 mL	1300 µg/L	1	80	100	94	2	11/2/17 00:22:11	N	IV
RQ1711312-04	Lead, Total	DMS	R1710078-002	Water	0.48 ppm	50 mL	479 µg/L	1	4	50	96	<1	11/2/17 00:22:11	N	IV
R1710078-003	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 00:32:08	N	IV
R1710078-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 00:32:08	N	IV
R1710078-003	Iron, Total	N/A		Water	0.29 ppm	50 mL	290 µg/L	1	80	100			11/2/17 00:32:08	N	IV
R1710078-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 00:32:08	N	IV
R1710078-004	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 00:35:28	N	IV
R1710078-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 00:35:28	N	IV
R1710078-004	Iron, Total	N/A		Water	0.28 ppm	50 mL	280 µg/L	1	80	100			11/2/17 00:35:28	N	IV
R1710078-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 00:35:28	N	IV
R1710078-005	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 00:38:47	N	IV
R1710078-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 00:38:47	N	IV

F indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568463 **Method/Testcode:** 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710078-005	Iron, Total	N/A		Water	0.31 ppm	50 mL	310 µg/L	1	80	100			11/2/17 00:38:47	N	IV
1710078-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 00:38:47	N	IV
1710078-006	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 00:48:43	N	IV
1710078-006	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 00:48:43	N	IV
1710078-006	Iron, Total	N/A		Water	0.20 ppm	50 mL	200 µg/L	1	80	100			11/2/17 00:48:43	N	IV
1710078-006	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 00:48:43	N	IV
1710078-007	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 00:52:01	N	IV
1710078-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 00:52:01	N	IV
1710078-007	Iron, Total	N/A		Water	0.29 ppm	50 mL	290 µg/L	1	80	100			11/2/17 00:52:01	N	IV
1710078-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 00:52:01	N	IV
1710078-009	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 00:55:19	N	IV
1710078-009	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 00:55:19	N	IV
1710078-009	Iron, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L	1	80	100			11/2/17 00:55:19	N	IV
1710078-009	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 00:55:19	N	IV
1710078-010	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 00:58:38	N	IV
1710078-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 00:58:38	N	IV
1710078-010	Iron, Total	N/A		Water	0.21 ppm	50 mL	210 µg/L	1	80	100			11/2/17 00:58:38	N	IV
1710078-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 00:58:38	N	IV
1710078-011	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 01:01:56	N	IV
1710078-011	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 01:01:56	N	IV
1710078-011	Iron, Total	N/A		Water	0.01 ppm	50 mL	100 µg/L U	1	80	100			11/2/17 01:01:56	N	IV
1710078-011	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 01:01:56	N	IV
1710078-012	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 01:05:15	N	IV
1710078-012	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 01:05:15	N	IV
1710078-012	Iron, Total	N/A		Water	1.48 ppm	50 mL	1480 µg/L	1	80	100			11/2/17 01:05:15	N	IV
1710078-012	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 01:05:15	N	IV
1710078-013	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 01:08:34	N	IV
1710078-013	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 01:08:34	N	IV
1710078-013	Iron, Total	N/A		Water	1.36 ppm	50 mL	1360 µg/L	1	80	100			11/2/17 01:08:34	N	IV
1710078-013	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 01:08:34	N	IV
1710078-014	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 01:11:53	N	IV
1710078-014	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 01:11:53	N	IV
1710078-014	Iron, Total	N/A		Water	0.11 ppm	50 mL	110 µg/L	1	80	100			11/2/17 01:11:53	N	IV
1710078-014	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 01:11:53	N	IV
1710078-015	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 01:15:11	N	IV
1710078-015	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 01:15:11	N	IV

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568463 **Method/Testcode:** 6010C/Fe T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1710078-015	Iron, Total	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	80	100			11/2/17 01:15:11	N	IV
R1710078-015	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 01:15:11	N	IV
R1710078-016	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 01:18:30	N	IV
R1710078-016	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 01:18:30	N	IV
R1710078-016	Iron, Total	N/A		Water	1.38 ppm	50 mL	1380 µg/L	1	80	100			11/2/17 01:18:30	N	IV
R1710078-016	Lead, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 01:18:30	N	IV
R1710205-001	Zinc, Total	N/A		Water	1.01 ppm	5.0000 mL	202 mg/L	20	1.4	4.0			11/2/17 01:28:27	N	II
R1710205-001	Selenium, Total	N/A		Water	0.15 ppm	5.0000 mL	7.37 mg/L	5	0.17	0.50			11/2/17 01:31:46	Y	II
R1710205-001	Copper, Total	N/A		Water	0.04 ppm	5.0000 mL	0.41 mg/L	1	0.10	0.20			11/2/17 01:35:04	N	II
RQ1711312-05	Selenium, Total	DUP	R1710205-001	Water	0.15 ppm	5.0000 mL	7320 µg/L	5	170	500		<1	11/2/17 01:38:22	N	II
R1710205-002	Zinc, Total	N/A		Water	0.97 ppm	5.0000 mL	193 mg/L	20	1.4	4.0			11/2/17 01:41:41	N	II
R1710205-002	Selenium, Total	N/A		Water	0.15 ppm	5.0000 mL	7.28 mg/L	5	0.17	0.50			11/2/17 01:45:00	Y	II
R1710205-002	Copper, Total	N/A		Water	0.04 ppm	5.0000 mL	0.40 mg/L	1	0.10	0.20			11/2/17 01:48:19	N	II
RQ1711312-06	Selenium, Total	DUP	R1710205-002	Water	0.14 ppm	5.0000 mL	7190 µg/L	5	170	500		1	11/2/17 01:51:38	N	II

! indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/Al T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711238-01	Aluminum, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	100	100			11/2/17 02:18:09	N	IV
RQ1711238-01	Antimony, Total	MB		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 02:18:09	N	IV
RQ1711238-01	Arsenic, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 02:18:09	N	IV
RQ1711238-01	Barium, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			11/2/17 02:18:09	N	IV
RQ1711238-01	Beryllium, Total	MB		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 02:18:09	N	IV
RQ1711238-01	Boron, Total	MB		Water	0.00 ppm	50 mL	200 µg/L U	1	80	200			11/2/17 02:18:09	N	IV
RQ1711238-01	Cadmium, Dissolved	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:18:09	N	IV
RQ1711238-01	Cadmium, Total	MB		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:18:09	N	IV
RQ1711238-01	Calcium, Total	MB		Water	-0.04 ppm	50 mL	1000 µg/L U	1	400	1000			11/2/17 02:18:09	N	IV
RQ1711238-01	Chromium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 02:18:09	N	IV
RQ1711238-01	Cobalt, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/2/17 02:18:09	N	IV
RQ1711238-01	Copper, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 02:18:09	N	IV
RQ1711238-01	Iron, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			11/2/17 02:18:09	N	IV
RQ1711238-01	Lead, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	4	50			11/2/17 02:18:09	N	IV
RQ1711238-01	Magnesium, Total	MB		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			11/2/17 02:18:09	N	IV
RQ1711238-01	Manganese, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			11/2/17 02:18:09	N	IV
RQ1711238-01	Molybdenum, Total	MB		Water	0.00 ppm	50 mL	25 µg/L U	1	4	25			11/2/17 02:18:09	N	IV
RQ1711238-01	Nickel, Total	MB		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 02:18:09	N	IV
RQ1711238-01	Potassium, Total	MB		Water	-0.01 ppm	50 mL	2000 µg/L U	1	300	2000			11/2/17 02:18:09	N	IV
RQ1711238-01	Selenium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 02:18:09	N	IV
RQ1711238-01	Silver, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 02:18:09	N	IV
RQ1711238-01	Sodium, Total	MB		Water	0.01 ppm	50 mL	1000 µg/L U	1	400	1000			11/2/17 02:18:09	N	IV
RQ1711238-01	Strontium, Total	MB		Water	0.00 ppm	50 mL	100 µg/L U	1	3	100			11/2/17 02:18:09	N	IV
RQ1711238-01	Thallium, Total	MB		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			11/2/17 02:18:09	N	IV
RQ1711238-01	Tin, Total	MB		Water	0.00 ppm	50 mL	500 µg/L U	1	30	500			11/2/17 02:18:09	N	IV
RQ1711238-01	Vanadium, Total	MB		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/2/17 02:18:09	N	IV
RQ1711238-01	Zinc, Total	MB		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/2/17 02:18:09	N	IV
RQ1711238-02	Aluminum, Total	LCS		Water	1.82 ppm	50 mL	1820 µg/L	1	100	100	91		11/2/17 02:21:28	N	IV
RQ1711238-02	Antimony, Total	LCS		Water	0.48 ppm	50 mL	477 µg/L	1	8	60	95		11/2/17 02:21:28	N	IV
RQ1711238-02	Arsenic, Total	LCS		Water	0.04 ppm	50 mL	38.1 µg/L	1	4	10	95		11/2/17 02:21:28	N	IV
RQ1711238-02	Barium, Total	LCS		Water	2.00 ppm	50 mL	2000 µg/L	1	13	20	100		11/2/17 02:21:28	N	IV
RQ1711238-02	Beryllium, Total	LCS		Water	0.05 ppm	50 mL	48.9 µg/L	1	0.7	3.0	98		11/2/17 02:21:28	N	IV
RQ1711238-02	Boron, Total	LCS		Water	0.94 ppm	50 mL	935 µg/L	1	80	200	94		11/2/17 02:21:28	N	IV
RQ1711238-02	Cadmium, Dissolved	LCS		Water	0.05 ppm	50 mL	49.2 µg/L	1	0.9	5.0	98		11/2/17 02:21:28	N	IV
RQ1711238-02	Cadmium, Total	LCS		Water	0.05 ppm	50 mL	49.2 µg/L	1	0.9	5.0	98		11/2/17 02:21:28	N	IV
RQ1711238-02	Calcium, Total	LCS		Water	1.84 ppm	50 mL	1840 µg/L	1	400	1000	92		11/2/17 02:21:28	N	IV

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/Cr T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711238-02	Chromium, Total	LCS		Water	0.19 ppm	50 mL	191 µg/L	1	3	10	95		11/2/17 02:21:28	N	IV
RQ1711238-02	Cobalt, Total	LCS		Water	0.50 ppm	50 mL	495 µg/L	1	3	50	99		11/2/17 02:21:28	N	IV
RQ1711238-02	Copper, Total	LCS		Water	0.24 ppm	50 mL	241 µg/L	1	10	20	97		11/2/17 02:21:28	N	IV
RQ1711238-02	Iron, Total	LCS		Water	0.93 ppm	50 mL	932 µg/L	1	80	100	93		11/2/17 02:21:28	N	IV
RQ1711238-02	Lead, Total	LCS		Water	0.50 ppm	50 mL	495 µg/L	1	4	50	99		11/2/17 02:21:28	N	IV
RQ1711238-02	Magnesium, Total	LCS		Water	1.92 ppm	50 mL	1920 µg/L	1	300	1000	96		11/2/17 02:21:28	N	IV
RQ1711238-02	Manganese, Total	LCS		Water	0.48 ppm	50 mL	481 µg/L	1	5	10	96		11/2/17 02:21:28	N	IV
RQ1711238-02	Molybdenum, Total	LCS		Water	0.46 ppm	50 mL	460 µg/L	1	4	25	92		11/2/17 02:21:28	N	IV
RQ1711238-02	Nickel, Total	LCS		Water	0.49 ppm	50 mL	495 µg/L	1	9	40	99		11/2/17 02:21:28	N	IV
RQ1711238-02	Potassium, Total	LCS		Water	19.06 ppm	50 mL	19100 µg/L	1	300	2000	95		11/2/17 02:21:28	N	IV
RQ1711238-02	Selenium, Total	LCS		Water	1.00 ppm	50 mL	1000 µg/L	1	4	10	99		11/2/17 02:21:28	N	IV
RQ1711238-02	Silver, Total	LCS		Water	0.05 ppm	50 mL	48.5 µg/L	1	2	10	97		11/2/17 02:21:28	N	IV
RQ1711238-02	Sodium, Total	LCS		Water	19.50 ppm	50 mL	19500 µg/L	1	400	1000	97		11/2/17 02:21:28	N	IV
RQ1711238-02	Strontium, Total	LCS		Water	1.96 ppm	50 mL	1960 µg/L	1	3	100	98		11/2/17 02:21:28	N	IV
RQ1711238-02	Thallium, Total	LCS		Water	1.84 ppm	50 mL	1840 µg/L	1	6	10	92		11/2/17 02:21:28	N	IV
RQ1711238-02	Tin, Total	LCS		Water	4.84 ppm	50 mL	4840 µg/L	1	30	500	97		11/2/17 02:21:28	N	IV
RQ1711238-02	Vanadium, Total	LCS		Water	0.48 ppm	50 mL	484 µg/L	1	3	50	97		11/2/17 02:21:28	N	IV
RQ1711238-02	Zinc, Total	LCS		Water	0.49 ppm	50 mL	486 µg/L	1	7	20	97		11/2/17 02:21:28	N	IV
R1710073-023	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 02:24:48	N	IV
R1710073-023	Barium, Total	N/A		Water	0.02 ppm	50 mL	20 µg/L	1	13	20			11/2/17 02:24:48	N	IV
R1710073-023	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 02:24:48	N	IV
R1710073-023	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:24:48	N	IV
R1710073-023	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 02:24:48	N	IV
R1710073-023	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 02:24:48	N	IV
R1710073-023	Iron, Total	N/A		Water	10.59 ppm	50 mL	10600 µg/L	1	80	100			11/2/17 02:24:48	N	IV
R1710073-023	Magnesium, Total	N/A		Water	8.74 ppm	50 mL	8700 µg/L	1	300	1000			11/2/17 02:24:48	N	IV
R1710073-023	Manganese, Total	N/A		Water	0.14 ppm	50 mL	141 µg/L	1	5	10			11/2/17 02:24:48	N	IV
R1710073-023	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 02:24:48	N	IV
R1710073-023	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 02:24:48	N	IV
R1710073-023	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/2/17 02:24:48	N	IV
R1710073-024	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:28:07	N	IV
R1710073-028	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 02:31:26	N	IV
R1710073-028	Barium, Total	N/A		Water	0.05 ppm	50 mL	47 µg/L	1	13	20			11/2/17 02:31:26	N	IV
R1710073-028	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 02:31:26	N	IV
R1710073-028	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:31:26	N	IV
R1710073-028	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 02:31:26	N	IV

4 indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/Cu T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710073-028	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 02:31:26	N	IV
1710073-028	Iron, Total	N/A		Water	17.08 ppm	50 mL	17100 µg/L	1	80	100			11/2/17 02:31:26	N	IV
1710073-028	Magnesium, Total	N/A		Water	8.04 ppm	50 mL	8000 µg/L	1	300	1000			11/2/17 02:31:26	N	IV
1710073-028	Manganese, Total	N/A		Water	0.98 ppm	50 mL	976 µg/L	1	5	10			11/2/17 02:31:26	N	IV
1710073-028	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 02:31:26	N	IV
1710073-028	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 02:31:26	N	IV
1710073-028	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/2/17 02:31:26	N	IV
1710073-029	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:34:46	N	IV
1710073-030	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 02:38:07	N	IV
1710073-030	Barium, Total	N/A		Water	0.13 ppm	50 mL	126 µg/L	1	13	20			11/2/17 02:38:07	N	IV
1710073-030	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 02:38:07	N	IV
1710073-030	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:38:07	N	IV
1710073-030	Chromium, Total	N/A		Water	0.00 ppm	50 mL	3 µg/L J	1	3	10			11/2/17 02:38:07	N	IV
1710073-030	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 02:38:07	N	IV
1710073-030	Iron, Total	N/A		Water	11.28 ppm	50 mL	11300 µg/L	1	80	100			11/2/17 02:38:07	N	IV
1710073-030	Magnesium, Total	N/A		Water	10.45 ppm	50 mL	10400 µg/L	1	300	1000			11/2/17 02:38:07	N	IV
1710073-030	Manganese, Total	N/A		Water	0.46 ppm	50 mL	461 µg/L	1	5	10			11/2/17 02:38:07	N	IV
1710073-030	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 02:38:07	N	IV
1710073-030	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 02:38:07	N	IV
1710073-030	Zinc, Total	N/A		Water	0.01 ppm	50 mL	12 µg/L J	1	7	20			11/2/17 02:38:07	N	IV
1710073-031	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:41:27	N	IV
1710073-032	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 02:44:48	N	IV
1710073-032	Barium, Total	N/A		Water	0.08 ppm	50 mL	79 µg/L	1	13	20			11/2/17 02:44:48	N	IV
1710073-032	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 02:44:48	N	IV
1710073-032	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:44:48	N	IV
1710073-032	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 02:44:48	N	IV
1710073-032	Copper, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 02:44:48	N	IV
1710073-032	Iron, Total	N/A		Water	11.67 ppm	50 mL	11700 µg/L	1	80	100			11/2/17 02:44:48	N	IV
1710073-032	Magnesium, Total	N/A		Water	6.42 ppm	50 mL	6400 µg/L	1	300	1000			11/2/17 02:44:48	N	IV
1710073-032	Manganese, Total	N/A		Water	0.43 ppm	50 mL	429 µg/L	1	5	10			11/2/17 02:44:48	N	IV
1710073-032	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 02:44:48	N	IV
1710073-032	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 02:44:48	N	IV
1710073-032	Zinc, Total	N/A		Water	0.01 ppm	50 mL	20 µg/L U	1	7	20			11/2/17 02:44:48	N	IV
1710073-033	Cadmium, Dissolved	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 02:48:09	N	IV
1710163-003	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	0.10 mg/L U	1	0.10	0.10			11/2/17 03:01:26	N	IV
1710163-003	Barium, Total	N/A		Water	0.05 ppm	50 mL	0.050 mg/L	1	0.013	0.020			11/2/17 03:01:26	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/Be T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710163-003	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			11/2/17 03:01:26	N	IV
1710163-003	Boron, Total	N/A		Water	0.12 ppm	50 mL	0.12 mg/L J	1	0.08	0.20			11/2/17 03:01:26	N	IV
1710163-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			11/2/17 03:01:26	N	IV
1710163-003	Calcium, Total	N/A		Water	64.03 ppm	50 mL	64.0 mg/L	1	0.4	1.0			11/2/17 03:01:26	N	IV
1710163-003	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.003	0.010			11/2/17 03:01:26	N	IV
1710163-003	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			11/2/17 03:01:26	N	IV
1710163-003	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.010	0.020			11/2/17 03:01:26	N	IV
1710163-003	Iron, Total	N/A		Water	0.17 ppm	50 mL	0.17 mg/L	1	0.08	0.10			11/2/17 03:01:26	N	IV
1710163-003	Lead, Total	N/A		Water	0.01 ppm	50 mL	0.013 mg/L J	1	0.004	0.050			11/2/17 03:01:26	N	IV
1710163-003	Magnesium, Total	N/A		Water	38.09 ppm	50 mL	38.1 mg/L	1	0.3	1.0			11/2/17 03:01:26	N	IV
1710163-003	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.008 mg/L J	1	0.005	0.010			11/2/17 03:01:26	N	IV
1710163-003	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.012 mg/L J	1	0.004	0.025			11/2/17 03:01:26	N	IV
1710163-003	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	0.040 mg/L U	1	0.009	0.040			11/2/17 03:01:26	N	IV
1710163-003	Potassium, Total	N/A		Water	5.26 ppm	50 mL	5.3 mg/L	1	0.3	2.0			11/2/17 03:01:26	N	IV
1710163-003	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			11/2/17 03:01:26	N	IV
1710163-003	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			11/2/17 03:01:26	N	IV
1710163-003	Sodium, Total	N/A		Water	87.14 ppm	50 mL	87.1 mg/L	1	0.4	1.0			11/2/17 03:01:26	N	IV
1710163-003	Strontium, Total	N/A		Water	2.59 ppm	50 mL	2.59 mg/L	1	0.003	0.10			11/2/17 03:01:26	N	IV
1710163-003	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			11/2/17 03:01:26	N	IV
1710163-003	Vanadium, Total	N/A		Water	0.01 ppm	50 mL	0.013 mg/L J	1	0.003	0.050			11/2/17 03:01:26	N	IV
1710163-003	Zinc, Total	N/A		Water	0.09 ppm	50 mL	0.086 mg/L	1	0.007	0.020			11/2/17 03:01:26	N	IV
1710163-010	Aluminum, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.10	0.10			11/2/17 03:04:46	N	IV
1710163-010	Barium, Total	N/A		Water	0.02 ppm	50 mL	0.018 mg/L J	1	0.013	0.020			11/2/17 03:04:46	N	IV
1710163-010	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			11/2/17 03:04:46	N	IV
1710163-010	Boron, Total	N/A		Water	0.15 ppm	50 mL	0.15 mg/L J	1	0.08	0.20			11/2/17 03:04:46	N	IV
1710163-010	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			11/2/17 03:04:46	N	IV
1710163-010	Calcium, Total	N/A		Water	59.80 ppm	50 mL	59.8 mg/L	1	0.4	1.0			11/2/17 03:04:46	N	IV
1710163-010	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.003	0.010			11/2/17 03:04:46	N	IV
1710163-010	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			11/2/17 03:04:46	N	IV
1710163-010	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.010	0.020			11/2/17 03:04:46	N	IV
1710163-010	Iron, Total	N/A		Water	0.17 ppm	50 mL	0.17 mg/L	1	0.08	0.10			11/2/17 03:04:46	N	IV
1710163-010	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			11/2/17 03:04:46	N	IV
1710163-010	Magnesium, Total	N/A		Water	35.81 ppm	50 mL	35.8 mg/L	1	0.3	1.0			11/2/17 03:04:46	N	IV
1710163-010	Manganese, Total	N/A		Water	0.01 ppm	50 mL	0.008 mg/L J	1	0.005	0.010			11/2/17 03:04:46	N	IV
1710163-010	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.014 mg/L J	1	0.004	0.025			11/2/17 03:04:46	N	IV
1710163-010	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	0.040 mg/L U	1	0.009	0.040			11/2/17 03:04:46	N	IV

' indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/K T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710163-010	Potassium, Total	N/A		Water	3.87 ppm	50 mL	3.9 mg/L	1	0.3	2.0			11/2/17 03:04:46	N	IV
1710163-010	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			11/2/17 03:04:46	N	IV
1710163-010	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			11/2/17 03:04:46	N	IV
1710163-010	Sodium, Total	N/A		Water	80.50 ppm	50 mL	80.5 mg/L	1	0.4	1.0			11/2/17 03:04:46	N	IV
1710163-010	Strontium, Total	N/A		Water	1.87 ppm	50 mL	1.87 mg/L	1	0.003	0.10			11/2/17 03:04:46	N	IV
1710163-010	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			11/2/17 03:04:46	N	IV
1710163-010	Vanadium, Total	N/A		Water	0.01 ppm	50 mL	0.015 mg/L J	1	0.003	0.050			11/2/17 03:04:46	N	IV
1710163-010	Zinc, Total	N/A		Water	0.03 ppm	50 mL	0.027 mg/L	1	0.007	0.020			11/2/17 03:04:46	N	IV
1710194-001	Aluminum, Total	N/A		Water	0.05 ppm	50 mL	100 µg/L U	1	100	100			11/2/17 03:08:07	N	IV
1710194-001	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 03:08:07	N	IV
1710194-001	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 03:08:07	N	IV
1710194-001	Barium, Total	N/A		Water	0.17 ppm	50 mL	170 µg/L	1	13	20			11/2/17 03:08:07	N	IV
1710194-001	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 03:08:07	N	IV
1710194-001	Boron, Total	N/A		Water	0.12 ppm	50 mL	120 µg/L J	1	80	200			11/2/17 03:08:07	N	IV
1710194-001	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 03:08:07	N	IV
1710194-001	Calcium, Total	N/A		Water	102.75 ppm	50 mL	103000 µg/L	1	400	1000			11/2/17 03:08:07	N	IV
1710194-001	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 03:08:07	N	IV
1710194-001	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/2/17 03:08:07	N	IV
1710194-001	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 03:08:07	N	IV
1710194-001	Iron, Total	N/A		Water	41.34 ppm	50 mL	41300 µg/L	1	80	100			11/2/17 03:08:07	N	IV
1710194-001	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/2/17 03:08:07	N	IV
1710194-001	Magnesium, Total	N/A		Water	12.94 ppm	50 mL	12900 µg/L	1	300	1000			11/2/17 03:08:07	N	IV
1710194-001	Manganese, Total	N/A		Water	0.86 ppm	50 mL	857 µg/L	1	5	10			11/2/17 03:08:07	N	IV
1710194-001	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 03:08:07	N	IV
1710194-001	Potassium, Total	N/A		Water	4.07 ppm	50 mL	4100 µg/L	1	300	2000			11/2/17 03:08:07	N	IV
1710194-001	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 03:08:07	N	IV
1710194-001	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 03:08:07	N	IV
1710194-001	Sodium, Total	N/A		Water	2.82 ppm	50 mL	2800 µg/L	1	400	1000			11/2/17 03:08:07	N	IV
1710194-001	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			11/2/17 03:08:07	N	IV
1710194-001	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	3	50			11/2/17 03:08:07	N	IV
1710194-001	Zinc, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	7	20			11/2/17 03:08:07	N	IV
1710194-002	Aluminum, Total	N/A		Water	0.07 ppm	50 mL	100 µg/L U	1	100	100			11/2/17 03:11:26	Y	IV
1710194-002	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 03:11:26	Y	IV
1710194-002	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 03:11:26	Y	IV
1710194-002	Barium, Total	N/A		Water	0.06 ppm	50 mL	63 µg/L	1	13	20			11/2/17 03:11:26	Y	IV
1710194-002	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 03:11:26	Y	IV

' indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/B T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1710194-002	Boron, Total	N/A		Water	0.03 ppm	50 mL	200 µg/L U	1	80	200			11/2/17 03:11:26	Y	IV
R1710194-002	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.9 µg/L J	1	0.9	5.0			11/2/17 03:11:26	Y	IV
R1710194-002	Calcium, Total	N/A		Water	107.72 ppm	50 mL	108000 µg/L	1	400	1000			11/2/17 03:11:26	Y	IV
R1710194-002	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 03:11:26	Y	IV
R1710194-002	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	4 µg/L J	1	3	50			11/2/17 03:11:26	Y	IV
R1710194-002	Copper, Total	N/A		Water	0.04 ppm	50 mL	43 µg/L	1	10	20			11/2/17 03:11:26	Y	IV
R1710194-002	Iron, Total	N/A		Water	3.48 ppm	50 mL	3480 µg/L	1	80	100			11/2/17 03:11:26	Y	IV
R1710194-002	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/2/17 03:11:26	Y	IV
R1710194-002	Magnesium, Total	N/A		Water	7.58 ppm	50 mL	7600 µg/L	1	300	1000			11/2/17 03:11:26	Y	IV
R1710194-002	Manganese, Total	N/A		Water	0.16 ppm	50 mL	161 µg/L	1	5	10			11/2/17 03:11:26	Y	IV
R1710194-002	Nickel, Total	N/A		Water	0.02 ppm	50 mL	17 µg/L J	1	9	40			11/2/17 03:11:26	Y	IV
R1710194-002	Potassium, Total	N/A		Water	3.43 ppm	50 mL	3400 µg/L	1	300	2000			11/2/17 03:11:26	Y	IV
R1710194-002	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 03:11:26	Y	IV
R1710194-002	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 03:11:26	Y	IV
R1710194-002	Sodium, Total	N/A		Water	0.58 ppm	50 mL	600 µg/L J	1	400	1000			11/2/17 03:11:26	Y	IV
R1710194-002	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			11/2/17 03:11:26	Y	IV
R1710194-002	Vanadium, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L J	1	3	50			11/2/17 03:11:26	Y	IV
R1710194-002	Zinc, Total	N/A		Water	0.50 ppm	50 mL	496 µg/L	1	7	20			11/2/17 03:11:26	Y	IV
RQ1711238-03	Aluminum, Total	MS	R1710194-002	Water	2.02 ppm	50 mL	2020 µg/L	1	100	100	101		11/2/17 03:14:46	N	IV
RQ1711238-03	Antimony, Total	MS	R1710194-002	Water	0.50 ppm	50 mL	503 µg/L	1	8	60	101		11/2/17 03:14:46	N	IV
RQ1711238-03	Arsenic, Total	MS	R1710194-002	Water	0.04 ppm	50 mL	43 µg/L	1	4	10	108		11/2/17 03:14:46	N	IV
RQ1711238-03	Barium, Total	MS	R1710194-002	Water	2.07 ppm	50 mL	2070 µg/L	1	13	20	101		11/2/17 03:14:46	N	IV
RQ1711238-03	Beryllium, Total	MS	R1710194-002	Water	0.05 ppm	50 mL	50.2 µg/L	1	0.7	3.0	100		11/2/17 03:14:46	N	IV
RQ1711238-03	Boron, Total	MS	R1710194-002	Water	1.02 ppm	50 mL	1020 µg/L	1	80	200	102		11/2/17 03:14:46	N	IV
RQ1711238-03	Cadmium, Total	MS	R1710194-002	Water	0.05 ppm	50 mL	49.6 µg/L	1	0.9	5.0	97		11/2/17 03:14:46	N	IV
RQ1711238-03	Calcium, Total	MS	R1710194-002	Water	113.81 ppm	50 mL	114000 µg/L	1	400	1000	304*		11/2/17 03:14:46	N	IV
RQ1711238-03	Chromium, Total	MS	R1710194-002	Water	0.19 ppm	50 mL	193 µg/L	1	3	10	96		11/2/17 03:14:46	N	IV
RQ1711238-03	Cobalt, Total	MS	R1710194-002	Water	0.50 ppm	50 mL	502 µg/L	1	3	50	100		11/2/17 03:14:46	N	IV
RQ1711238-03	Copper, Total	MS	R1710194-002	Water	0.29 ppm	50 mL	294 µg/L	1	10	20	101		11/2/17 03:14:46	N	IV
RQ1711238-03	Iron, Total	MS	R1710194-002	Water	4.51 ppm	50 mL	4510 µg/L	1	80	100	103		11/2/17 03:14:46	N	IV
RQ1711238-03	Lead, Total	MS	R1710194-002	Water	0.50 ppm	50 mL	499 µg/L	1	4	50	100		11/2/17 03:14:46	N	IV
RQ1711238-03	Magnesium, Total	MS	R1710194-002	Water	9.70 ppm	50 mL	9700 µg/L	1	300	1000	106		11/2/17 03:14:46	N	IV
RQ1711238-03	Manganese, Total	MS	R1710194-002	Water	0.65 ppm	50 mL	650 µg/L	1	5	10	98		11/2/17 03:14:46	N	IV
RQ1711238-03	Nickel, Total	MS	R1710194-002	Water	0.51 ppm	50 mL	510 µg/L	1	9	40	99		11/2/17 03:14:46	N	IV
RQ1711238-03	Potassium, Total	MS	R1710194-002	Water	24.11 ppm	50 mL	24100 µg/L	1	300	2000	103		11/2/17 03:14:46	N	IV
RQ1711238-03	Selenium, Total	MS	R1710194-002	Water	1.05 ppm	50 mL	1050 µg/L	1	4	10	104		11/2/17 03:14:46	N	IV

* indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/Ag T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711238-03	Silver, Total	MS	R1710194-002	Water	0.05 ppm	50 mL	50 µg/L	1	2	10	101		11/2/17 03:14:46	N	IV
RQ1711238-03	Sodium, Total	MS	R1710194-002	Water	21.53 ppm	50 mL	21500 µg/L	1	400	1000	105		11/2/17 03:14:46	N	IV
RQ1711238-03	Thallium, Total	MS	R1710194-002	Water	1.96 ppm	50 mL	1960 µg/L	1	6	10	98		11/2/17 03:14:46	N	IV
RQ1711238-03	Vanadium, Total	MS	R1710194-002	Water	0.51 ppm	50 mL	508 µg/L	1	3	50	100		11/2/17 03:14:46	N	IV
RQ1711238-03	Zinc, Total	MS	R1710194-002	Water	1.00 ppm	50 mL	1000 µg/L	1	7	20	101		11/2/17 03:14:46	N	IV
RQ1711238-04	Aluminum, Total	DMS	R1710194-002	Water	1.99 ppm	50 mL	1990 µg/L	1	100	100	100	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Antimony, Total	DMS	R1710194-002	Water	0.50 ppm	50 mL	496 µg/L	1	8	60	99	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Arsenic, Total	DMS	R1710194-002	Water	0.04 ppm	50 mL	45 µg/L	1	4	10	112	3	11/2/17 03:18:06	N	IV
RQ1711238-04	Barium, Total	DMS	R1710194-002	Water	2.05 ppm	50 mL	2050 µg/L	1	13	20	99	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Beryllium, Total	DMS	R1710194-002	Water	0.05 ppm	50 mL	49.5 µg/L	1	0.7	3.0	99	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Boron, Total	DMS	R1710194-002	Water	1.00 ppm	50 mL	1000 µg/L	1	80	200	100	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Cadmium, Total	DMS	R1710194-002	Water	0.05 ppm	50 mL	49.1 µg/L	1	0.9	5.0	96	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Calcium, Total	DMS	R1710194-002	Water	110.92 ppm	50 mL	111000 µg/L	1	400	1000	160*	3	11/2/17 03:18:06	N	IV
RQ1711238-04	Chromium, Total	DMS	R1710194-002	Water	0.19 ppm	50 mL	190 µg/L	1	3	10	95	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Cobalt, Total	DMS	R1710194-002	Water	0.49 ppm	50 mL	494 µg/L	1	3	50	98	2	11/2/17 03:18:06	N	IV
RQ1711238-04	Copper, Total	DMS	R1710194-002	Water	0.29 ppm	50 mL	290 µg/L	1	10	20	99	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Iron, Total	DMS	R1710194-002	Water	4.40 ppm	50 mL	4400 µg/L	1	80	100	92	2	11/2/17 03:18:06	N	IV
RQ1711238-04	Lead, Total	DMS	R1710194-002	Water	0.49 ppm	50 mL	494 µg/L	1	4	50	99	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Magnesium, Total	DMS	R1710194-002	Water	9.47 ppm	50 mL	9500 µg/L	1	300	1000	95	2	11/2/17 03:18:06	N	IV
RQ1711238-04	Manganese, Total	DMS	R1710194-002	Water	0.64 ppm	50 mL	639 µg/L	1	5	10	96	2	11/2/17 03:18:06	N	IV
RQ1711238-04	Nickel, Total	DMS	R1710194-002	Water	0.50 ppm	50 mL	503 µg/L	1	9	40	97	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Potassium, Total	DMS	R1710194-002	Water	23.79 ppm	50 mL	23800 µg/L	1	300	2000	102	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Selenium, Total	DMS	R1710194-002	Water	1.04 ppm	50 mL	1040 µg/L	1	4	10	103	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Silver, Total	DMS	R1710194-002	Water	0.05 ppm	50 mL	50 µg/L	1	2	10	100	<1	11/2/17 03:18:06	N	IV
RQ1711238-04	Sodium, Total	DMS	R1710194-002	Water	21.19 ppm	50 mL	21200 µg/L	1	400	1000	103	2	11/2/17 03:18:06	N	IV
RQ1711238-04	Thallium, Total	DMS	R1710194-002	Water	1.93 ppm	50 mL	1930 µg/L	1	6	10	97	2	11/2/17 03:18:06	N	IV
RQ1711238-04	Vanadium, Total	DMS	R1710194-002	Water	0.50 ppm	50 mL	501 µg/L	1	3	50	98	1	11/2/17 03:18:06	N	IV
RQ1711238-04	Zinc, Total	DMS	R1710194-002	Water	0.98 ppm	50 mL	982 µg/L	1	7	20	97	2	11/2/17 03:18:06	N	IV
R1710194-003	Aluminum, Total	N/A		Water	0.15 ppm	50 mL	150 µg/L	1	100	100			11/2/17 03:28:08	N	IV
R1710194-003	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 03:28:08	N	IV
R1710194-003	Arsenic, Total	N/A		Water	0.01 ppm	50 mL	7 µg/L J	1	4	10			11/2/17 03:28:08	N	IV
R1710194-003	Barium, Total	N/A		Water	0.05 ppm	50 mL	47 µg/L	1	13	20			11/2/17 03:28:08	N	IV
R1710194-003	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 03:28:08	N	IV
R1710194-003	Boron, Total	N/A		Water	0.05 ppm	50 mL	200 µg/L U	1	80	200			11/2/17 03:28:08	N	IV
R1710194-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 03:28:08	N	IV
R1710194-003	Calcium, Total	N/A		Water	53.56 ppm	50 mL	53600 µg/L	1	400	1000			11/2/17 03:28:08	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/Cr T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710194-003	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 03:28:08	N	IV
1710194-003	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/2/17 03:28:08	N	IV
1710194-003	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 03:28:08	N	IV
1710194-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/2/17 03:28:08	N	IV
1710194-003	Magnesium, Total	N/A		Water	9.82 ppm	50 mL	9800 µg/L	1	300	1000			11/2/17 03:28:08	N	IV
1710194-003	Manganese, Total	N/A		Water	2.03 ppm	50 mL	2030 µg/L	1	5	10			11/2/17 03:28:08	N	IV
1710194-003	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 03:28:08	N	IV
1710194-003	Potassium, Total	N/A		Water	2.62 ppm	50 mL	2600 µg/L	1	300	2000			11/2/17 03:28:08	N	IV
1710194-003	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 03:28:08	N	IV
1710194-003	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 03:28:08	N	IV
1710194-003	Sodium, Total	N/A		Water	1.32 ppm	50 mL	1300 µg/L	1	400	1000			11/2/17 03:28:08	N	IV
1710194-003	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	6	10			11/2/17 03:28:08	N	IV
1710194-003	Vanadium, Total	N/A		Water	0.01 ppm	50 mL	6 µg/L J	1	3	50			11/2/17 03:28:08	N	IV
1710194-003	Zinc, Total	N/A		Water	0.01 ppm	50 mL	10 µg/L J	1	7	20			11/2/17 03:28:08	N	IV
1710194-004	Aluminum, Total	N/A		Water	0.03 ppm	50 mL	100 µg/L U	1	100	100			11/2/17 03:38:06	N	IV
1710194-004	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 03:38:06	N	IV
1710194-004	Arsenic, Total	N/A		Water	0.02 ppm	50 mL	19 µg/L	1	4	10			11/2/17 03:38:06	N	IV
1710194-004	Barium, Total	N/A		Water	0.12 ppm	50 mL	118 µg/L	1	13	20			11/2/17 03:38:06	N	IV
1710194-004	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 03:38:06	N	IV
1710194-004	Boron, Total	N/A		Water	0.10 ppm	50 mL	100 µg/L J	1	80	200			11/2/17 03:38:06	N	IV
1710194-004	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 03:38:06	N	IV
1710194-004	Calcium, Total	N/A		Water	97.32 ppm	50 mL	97300 µg/L	1	400	1000			11/2/17 03:38:06	N	IV
1710194-004	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 03:38:06	N	IV
1710194-004	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/2/17 03:38:06	N	IV
1710194-004	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 03:38:06	N	IV
1710194-004	Iron, Total	N/A		Water	16.01 ppm	50 mL	16000 µg/L	1	80	100			11/2/17 03:38:06	N	IV
1710194-004	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/2/17 03:38:06	N	IV
1710194-004	Magnesium, Total	N/A		Water	11.78 ppm	50 mL	11800 µg/L	1	300	1000			11/2/17 03:38:06	N	IV
1710194-004	Manganese, Total	N/A		Water	0.74 ppm	50 mL	743 µg/L	1	5	10			11/2/17 03:38:06	N	IV
1710194-004	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 03:38:06	N	IV
1710194-004	Potassium, Total	N/A		Water	16.23 ppm	50 mL	16200 µg/L	1	300	2000			11/2/17 03:38:06	N	IV
1710194-004	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 03:38:06	N	IV
1710194-004	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 03:38:06	N	IV
1710194-004	Sodium, Total	N/A		Water	5.21 ppm	50 mL	5200 µg/L	1	400	1000			11/2/17 03:38:06	N	IV
1710194-004	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			11/2/17 03:38:06	N	IV
1710194-004	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/2/17 03:38:06	N	IV

f indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/Zn T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710194-004	Zinc, Total	N/A		Water	0.02 ppm	50 mL	18 µg/L J	1	7	20			11/2/17 03:38:06	N	IV
1710194-005	Aluminum, Total	N/A		Water	0.15 ppm	50 mL	150 µg/L	1	100	100			11/2/17 03:41:27	N	IV
1710194-005	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 03:41:27	N	IV
1710194-005	Arsenic, Total	N/A		Water	0.01 ppm	50 mL	7 µg/L J	1	4	10			11/2/17 03:41:27	N	IV
1710194-005	Barium, Total	N/A		Water	0.05 ppm	50 mL	47 µg/L	1	13	20			11/2/17 03:41:27	N	IV
1710194-005	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 03:41:27	N	IV
1710194-005	Boron, Total	N/A		Water	0.05 ppm	50 mL	200 µg/L U	1	80	200			11/2/17 03:41:27	N	IV
1710194-005	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 03:41:27	N	IV
1710194-005	Calcium, Total	N/A		Water	54.11 ppm	50 mL	54100 µg/L	1	400	1000			11/2/17 03:41:27	N	IV
1710194-005	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 03:41:27	N	IV
1710194-005	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/2/17 03:41:27	N	IV
1710194-005	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 03:41:27	N	IV
1710194-005	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/2/17 03:41:27	N	IV
1710194-005	Magnesium, Total	N/A		Water	9.91 ppm	50 mL	9900 µg/L	1	300	1000			11/2/17 03:41:27	N	IV
1710194-005	Manganese, Total	N/A		Water	2.05 ppm	50 mL	2050 µg/L	1	5	10			11/2/17 03:41:27	N	IV
1710194-005	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 03:41:27	N	IV
1710194-005	Potassium, Total	N/A		Water	2.67 ppm	50 mL	2700 µg/L	1	300	2000			11/2/17 03:41:27	N	IV
1710194-005	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 03:41:27	N	IV
1710194-005	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 03:41:27	N	IV
1710194-005	Sodium, Total	N/A		Water	1.33 ppm	50 mL	1300 µg/L	1	400	1000			11/2/17 03:41:27	N	IV
1710194-005	Thallium, Total	N/A		Water	-0.01 ppm	50 mL	10 µg/L U	1	6	10			11/2/17 03:41:27	N	IV
1710194-005	Vanadium, Total	N/A		Water	0.01 ppm	50 mL	6 µg/L J	1	3	50			11/2/17 03:41:27	N	IV
1710194-005	Zinc, Total	N/A		Water	0.01 ppm	50 mL	8 µg/L J	1	7	20			11/2/17 03:41:27	N	IV
1710194-007	Aluminum, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	100	100			11/2/17 03:44:47	N	IV
1710194-007	Antimony, Total	N/A		Water	0.00 ppm	50 mL	60 µg/L U	1	8	60			11/2/17 03:44:47	N	IV
1710194-007	Arsenic, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 03:44:47	N	IV
1710194-007	Barium, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	13	20			11/2/17 03:44:47	N	IV
1710194-007	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	3.0 µg/L U	1	0.7	3.0			11/2/17 03:44:47	N	IV
1710194-007	Boron, Total	N/A		Water	0.00 ppm	50 mL	200 µg/L U	1	80	200			11/2/17 03:44:47	N	IV
1710194-007	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	0.9	5.0			11/2/17 03:44:47	N	IV
1710194-007	Calcium, Total	N/A		Water	-0.02 ppm	50 mL	1000 µg/L U	1	400	1000			11/2/17 03:44:47	N	IV
1710194-007	Chromium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	3	10			11/2/17 03:44:47	N	IV
1710194-007	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/2/17 03:44:47	N	IV
1710194-007	Copper, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	10	20			11/2/17 03:44:47	N	IV
1710194-007	Iron, Total	N/A		Water	0.00 ppm	50 mL	100 µg/L U	1	80	100			11/2/17 03:44:47	N	IV
1710194-007	Lead, Total	N/A		Water	0.00 ppm	50 mL	5.0 µg/L U	1	3.6	5.0			11/2/17 03:44:47	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/Mg T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710194-007	Magnesium, Total	N/A		Water	0.00 ppm	50 mL	1000 µg/L U	1	300	1000			11/2/17 03:44:47	N	IV
1710194-007	Manganese, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	5	10			11/2/17 03:44:47	N	IV
1710194-007	Nickel, Total	N/A		Water	0.00 ppm	50 mL	40 µg/L U	1	9	40			11/2/17 03:44:47	N	IV
1710194-007	Potassium, Total	N/A		Water	0.00 ppm	50 mL	2000 µg/L U	1	300	2000			11/2/17 03:44:47	N	IV
1710194-007	Selenium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	4	10			11/2/17 03:44:47	N	IV
1710194-007	Silver, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	2	10			11/2/17 03:44:47	N	IV
1710194-007	Sodium, Total	N/A		Water	0.04 ppm	50 mL	1000 µg/L U	1	400	1000			11/2/17 03:44:47	N	IV
1710194-007	Thallium, Total	N/A		Water	0.00 ppm	50 mL	10 µg/L U	1	6	10			11/2/17 03:44:47	N	IV
1710194-007	Vanadium, Total	N/A		Water	0.00 ppm	50 mL	50 µg/L U	1	3	50			11/2/17 03:44:47	N	IV
1710194-007	Zinc, Total	N/A		Water	0.00 ppm	50 mL	20 µg/L U	1	7	20			11/2/17 03:44:47	N	IV
1710208-003	Aluminum, Total	N/A		Water	0.02 ppm	50 mL	0.10 mg/L U	1	0.10	0.10			11/2/17 03:48:07	N	IV
1710208-003	Barium, Total	N/A		Water	0.02 ppm	50 mL	0.025 mg/L	1	0.013	0.020			11/2/17 03:48:07	N	IV
1710208-003	Beryllium, Total	N/A		Water	0.00 ppm	50 mL	0.0030 mg/L U	1	0.0007	0.0030			11/2/17 03:48:07	N	IV
1710208-003	Boron, Total	N/A		Water	0.15 ppm	50 mL	0.15 mg/L J	1	0.08	0.20			11/2/17 03:48:07	N	IV
1710208-003	Cadmium, Total	N/A		Water	0.00 ppm	50 mL	0.0050 mg/L U	1	0.0009	0.0050			11/2/17 03:48:07	N	IV
1710208-003	Calcium, Total	N/A		Water	18.06 ppm	50 mL	18.1 mg/L	1	0.4	1.0			11/2/17 03:48:07	N	IV
1710208-003	Chromium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.003	0.010			11/2/17 03:48:07	N	IV
1710208-003	Cobalt, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.003	0.050			11/2/17 03:48:07	N	IV
1710208-003	Copper, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.010	0.020			11/2/17 03:48:07	N	IV
1710208-003	Iron, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.08	0.10			11/2/17 03:48:07	N	IV
1710208-003	Lead, Total	N/A		Water	0.00 ppm	50 mL	0.050 mg/L U	1	0.004	0.050			11/2/17 03:48:07	N	IV
1710208-003	Magnesium, Total	N/A		Water	28.80 ppm	50 mL	28.8 mg/L	1	0.3	1.0			11/2/17 03:48:07	N	IV
1710208-003	Manganese, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.005	0.010			11/2/17 03:48:07	N	IV
1710208-003	Molybdenum, Total	N/A		Water	0.01 ppm	50 mL	0.006 mg/L J	1	0.004	0.025			11/2/17 03:48:07	N	IV
1710208-003	Nickel, Total	N/A		Water	-0.01 ppm	50 mL	0.040 mg/L U	1	0.009	0.040			11/2/17 03:48:07	N	IV
1710208-003	Potassium, Total	N/A		Water	4.41 ppm	50 mL	4.4 mg/L	1	0.3	2.0			11/2/17 03:48:07	N	IV
1710208-003	Selenium, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.004	0.010			11/2/17 03:48:07	N	IV
1710208-003	Silver, Total	N/A		Water	0.00 ppm	50 mL	0.010 mg/L U	1	0.002	0.010			11/2/17 03:48:07	N	IV
1710208-003	Sodium, Total	N/A		Water	33.85 ppm	50 mL	33.9 mg/L	1	0.4	1.0			11/2/17 03:48:07	N	IV
1710208-003	Strontium, Total	N/A		Water	0.77 ppm	50 mL	0.77 mg/L	1	0.003	0.10			11/2/17 03:48:07	N	IV
1710208-003	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			11/2/17 03:48:07	N	IV
1710208-003	Vanadium, Total	N/A		Water	0.01 ppm	50 mL	0.006 mg/L J	1	0.003	0.050			11/2/17 03:48:07	N	IV
1710208-003	Zinc, Total	N/A		Water	0.00 ppm	50 mL	0.020 mg/L U	1	0.007	0.020			11/2/17 03:48:07	N	IV
1710208-008	Aluminum, Total	N/A		Water	0.01 ppm	50 mL	0.10 mg/L U	1	0.10	0.10			11/2/17 03:51:27	N	IV
1710208-008	Barium, Total	N/A		Water	0.04 ppm	50 mL	0.043 mg/L	1	0.013	0.020			11/2/17 03:51:27	N	IV
1710208-008	Beryllium, Total	N/A		Water	0.04 ppm	50 mL	0.0405 mg/L	1	0.0007	0.0030			11/2/17 03:51:27	N	IV

f indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-ICP-AES-06 **Analyst:** NMANSEN **Analysis Lot:** 568464 **Method/Testcode:** 6010C/B T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
1710208-008	Boron, Total	N/A		Water	0.04 ppm	50 mL	0.20 mg/L U	1	0.08	0.20			11/2/17 03:51:27	N	IV
1710208-008	Cadmium, Total	N/A		Water	0.04 ppm	50 mL	0.0409 mg/L	1	0.0009	0.0050			11/2/17 03:51:27	N	IV
1710208-008	Calcium, Total	N/A		Water	0.00 ppm	50 mL	1.0 mg/L U	1	0.4	1.0			11/2/17 03:51:27	N	IV
1710208-008	Chromium, Total	N/A		Water	0.04 ppm	50 mL	0.041 mg/L	1	0.003	0.010			11/2/17 03:51:27	N	IV
1710208-008	Cobalt, Total	N/A		Water	0.04 ppm	50 mL	0.043 mg/L J	1	0.003	0.050			11/2/17 03:51:27	N	IV
1710208-008	Copper, Total	N/A		Water	0.04 ppm	50 mL	0.040 mg/L	1	0.010	0.020			11/2/17 03:51:27	N	IV
1710208-008	Iron, Total	N/A		Water	0.00 ppm	50 mL	0.10 mg/L U	1	0.08	0.10			11/2/17 03:51:27	N	IV
1710208-008	Lead, Total	N/A		Water	0.04 ppm	50 mL	0.041 mg/L J	1	0.004	0.050			11/2/17 03:51:27	N	IV
1710208-008	Magnesium, Total	N/A		Water	0.04 ppm	50 mL	1.0 mg/L U	1	0.3	1.0			11/2/17 03:51:27	N	IV
1710208-008	Manganese, Total	N/A		Water	0.05 ppm	50 mL	0.045 mg/L	1	0.005	0.010			11/2/17 03:51:27	N	IV
1710208-008	Molybdenum, Total	N/A		Water	0.00 ppm	50 mL	0.025 mg/L U	1	0.004	0.025			11/2/17 03:51:27	N	IV
1710208-008	Nickel, Total	N/A		Water	0.04 ppm	50 mL	0.043 mg/L	1	0.009	0.040			11/2/17 03:51:27	N	IV
1710208-008	Potassium, Total	N/A		Water	0.00 ppm	50 mL	2.0 mg/L U	1	0.3	2.0			11/2/17 03:51:27	N	IV
1710208-008	Selenium, Total	N/A		Water	0.04 ppm	50 mL	0.037 mg/L	1	0.004	0.010			11/2/17 03:51:27	N	IV
1710208-008	Silver, Total	N/A		Water	0.02 ppm	50 mL	0.020 mg/L	1	0.002	0.010			11/2/17 03:51:27	N	IV
1710208-008	Sodium, Total	N/A		Water	0.03 ppm	50 mL	1.0 mg/L U	1	0.4	1.0			11/2/17 03:51:27	N	IV
1710208-008	Strontium, Total	N/A		Water	0.04 ppm	50 mL	0.04 mg/L J	1	0.003	0.10			11/2/17 03:51:27	N	IV
1710208-008	Tin, Total	N/A		Water	0.00 ppm	50 mL	0.50 mg/L U	1	0.03	0.50			11/2/17 03:51:27	N	IV
1710208-008	Vanadium, Total	N/A		Water	0.04 ppm	50 mL	0.040 mg/L J	1	0.003	0.050			11/2/17 03:51:27	N	IV
1710208-008	Zinc, Total	N/A		Water	0.04 ppm	50 mL	0.042 mg/L	1	0.007	0.020			11/2/17 03:51:27	N	IV

' indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Metals Cover Page

Analyst: KSM **Date:** 11/3/17 **Instrument:** FIMSII

Data File: NOV03-W **Reviewed By:** NM **Entered By:** NM

Starlims Run #	Analytes Used	Batch ID	Method	Failed Analytes	Repeats
5687558	Hg	302169	7470A		

Package Data:

Client Sub#	TIER	Analytes Used	Batch ID	Raw Data Copied?
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No
	III / IV / ILM			Yes / No

Perkin Elmer FIMS Run Log

Serial number: 101S12110203

Analyst: KSM

Data File: NOV03-W KSM 11/3/17

Date Prepped: 11/2/17

Date Analyzed: 11/3/17

Lot #:

Calibration/CRDL Source Standard: M7600001W

Cal/ CRDL 10ppm stock: M7S9100794A

Cal/ CRDL 0.1ppm stock: M7S9100794B

Pipet ID: M28

ICV/CCV/LCS/MS Source Standard: M7600001G

ICV/CCV/LCS/MS 10ppm stock: M7S9100794A

ICV/CCV/LCS/MS 0.1 ppm stock: M7S9100794B

DOD Pipet Verification: —

1		Calib Blank
2		0.2ppb std
3		0.5ppb std
4		1.0ppb std
5		2.0ppb std
6		5.0ppb std
7		10.0ppb std
8	CC	ICV
1	CC	ICB
2	CC	MRL
8	CC	CCV
1	CC	CCB

38		PBW-302169
39		LCSW-302169
40		R1710088-001
41		R1710088-002
42		R1710088-002S
8	CC	CCV
1	CC	CCB
43		R1710088-002SD
44		R1710088-003
45		R1710088-004
46		R1710113-001
47		R1710113-~~002~~ 003
8	CC	CCV CR 11/14/17
1	CC	CCB
48		R1710113-~~003~~ 002
49		R1710113-004
50		R1710113-005
51		R1710113-006
52		R1710113-007
8	CC	CCV
1	CC	CCB
53		R1710266-003
54		R1710266-010
55		R1710266-011
56		R1710266-017 → R1710113-006RPT
57		R1710266-018 SX KSM 11/3/17
8	CC	CCV
1	CC	CCB → R1710113-006 RPT
58		R1710266-019 SX KSM 11/3/17
59		R1710304-002
60		R1710312-001
61		R1710312-002
2	CC	MRL
8	CC	CCV
1	CC	CCB
62		Sample062

KSM 11/3/17

KSM 11/3/17 (WM 11/3/17)

Analysis Begun

Logged In Analyst: ALRCE Metals01 Technique: AA FIMS-MHS
Spectrometer: FIMS-100, S/N B050-9550 Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\AA\Data\Sample Information\Routine.sif
Batch ID:
Results Data Set: NOV03-W
Results Library: C:\Users\Public\PerkinElmer\AA\Data\Results\NOV17.mdb

Sequence No.: 1 Autosampler Location: 1
Sample ID: Calib Blank Date Collected: 11/3/2017 12:19:11 PM
Analyst: Data Type: Original

Replicate Data: Calib Blank Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0004	0.0029	0.0004	12:20:03 PM	Yes
2		[0.00]	0.0002	0.0005	0.0002	12:20:32 PM	Yes
Mean:		[0.00]	0.0003				
SD:		0.0000	0.0001				
%RSD:		0.00%	40.89				

Auto-zero performed.

Sequence No.: 2 Autosampler Location: 2
Sample ID: 0.2ppb std Date Collected: 11/3/2017 12:20:50 PM
Analyst: Data Type: Original

Replicate Data: 0.2ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0024	0.0109	0.0027	12:21:40 PM	Yes
2		[0.2]	0.0024	0.0110	0.0027	12:22:09 PM	Yes
Mean:		[0.2]	0.0024				
SD:		0.000	0.0000				
%RSD:		0.00%	0.41				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01206 Intercept: 0.00000

Sequence No.: 3 Autosampler Location: 3
Sample ID: 0.5ppb std Date Collected: 11/3/2017 12:22:28 PM
Analyst: Data Type: Original

Replicate Data: 0.5ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0062	0.0264	0.0065	12:23:18 PM	Yes
2		[0.5]	0.0062	0.0260	0.0065	12:23:46 PM	Yes
Mean:		[0.5]	0.0062				
SD:		0.000	0.0000				
%RSD:		0.00%	0.33				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999583 Slope: 0.01242 Intercept: 0.00000

Sequence No.: 4 Autosampler Location: 4
Sample ID: 1.0ppb std Date Collected: 11/3/2017 12:24:06 PM
Analyst: Data Type: Original

Replicate Data: 1.0ppb std Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.0128	0.0533	0.0131	12:24:55 PM	Yes

2	[1.0]	0.0129	0.0537	0.0132	12:25:25 PM	Yes
Mean:	[1.0]	0.0129				
SD:	0.000	0.0001				
%RSD:	0.00%	0.50				

Standard number 3 applied. [1.0]
Correlation Coef.: 0.999504 Slope: 0.01277 Intercept: 0.00000

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 2.0ppb std **Date Collected: 11/3/2017 12:25:45 PM**
Analyst: **Data Type: Original**

Replicate Data: 2.0ppb std **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2.0]	0.0257	0.1050	0.0259	12:26:35 PM	Yes
2		[2.0]	0.0257	0.1046	0.0260	12:27:05 PM	Yes
Mean:		[2.0]	0.0257				
SD:		0.000	0.0000				
%RSD:		0.00%	0.06				

Standard number 4 applied. [2.0]
Correlation Coef.: 0.999907 Slope: 0.01282 Intercept: 0.00000

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 5.0ppb std **Date Collected: 11/3/2017 12:27:25 PM**
Analyst: **Data Type: Original**

Replicate Data: 5.0ppb std **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0645	0.2627	0.0648	12:28:13 PM	Yes
2		[5.0]	0.0649	0.2640	0.0652	12:28:42 PM	Yes
Mean:		[5.0]	0.0647				
SD:		0.000	0.0003				
%RSD:		0.00%	0.48				

Standard number 5 applied. [5.0]
Correlation Coef.: 0.999975 Slope: 0.01292 Intercept: 0.00000

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 10.0ppb std **Date Collected: 11/3/2017 12:29:01 PM**
Analyst: **Data Type: Original**

Replicate Data: 10.0ppb std **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1251	0.5123	0.1254	12:29:50 PM	Yes
2		[10.0]	0.1248	0.5095	0.1251	12:30:19 PM	Yes
Mean:		[10.0]	0.1250				
SD:		0.000	0.0003				
%RSD:		0.00%	0.21				

Standard number 6 applied. [10.0]
Correlation Coef.: 0.999811 Slope: 0.01260 Intercept: 0.00000

Calibration data for Hg 253.7 **Equation: Linear Through Zero**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calib Blank	0.0000	0	0.000	0.00	40.89
0.2ppb std	0.0024	0.2	0.191	0.00	0.41
0.5ppb std	0.0062	0.5	0.495	0.00	0.33
1.0ppb std	0.0129	1.0	1.022	0.00	0.50
2.0ppb std	0.0257	2.0	2.038	0.00	0.06
5.0ppb std	0.0647	5.0	5.137	0.00	0.48
10.0ppb std	0.1250	10.0	9.919	0.00	0.21

Correlation Coef.: 0.999811 Slope: 0.01260 Intercept: 0.00000

Sequence No.: 8 Autosampler Location: 8
Sample ID: ICV Date Collected: 11/3/2017 12:30:37 PM
Analyst: Data Type: Original

Replicate Data: ICV Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.045	3.045	0.0384	0.1559	0.0387	12:31:28 PM	Yes
2	3.036	3.036	0.0382	0.1566	0.0385	12:31:57 PM	Yes
Mean:	3.041	3.041	0.0383				
SD:	0.0066	0.0066	0.0001				
%RSD:	0.22%	0.22%	0.22				

QC value within limits for Hg 253.7 Recovery = 101.35%
All analyte(s) passed QC.

Sequence No.: 9 Autosampler Location: 1
Sample ID: ICB Date Collected: 11/3/2017 12:32:16 PM
Analyst: Data Type: Original

Replicate Data: ICB Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	-0.0000	0.0006	0.0002	12:33:05 PM	Yes
2	-0.008	-0.008	-0.0001	0.0003	0.0002	12:33:35 PM	Yes
Mean:	-0.006	-0.006	-0.0001				
SD:	0.0033	0.0033	0.0000				
%RSD:	52.69%	52.69%	52.69				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 2
Sample ID: MRL Date Collected: 11/3/2017 12:33:53 PM
Analyst: Data Type: Original

Replicate Data: MRL Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.196	0.196	0.0025	0.0112	0.0028	12:34:42 PM	Yes
2	0.197	0.197	0.0025	0.0108	0.0028	12:35:11 PM	Yes
Mean:	0.196	0.196	0.0025				
SD:	0.0013	0.0013	0.0000				
%RSD:	0.67%	0.67%	0.67				

QC value within limits for Hg 253.7 Recovery = 98.23%
All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 8
Sample ID: CCV Date Collected: 11/3/2017 12:35:30 PM
Analyst: Data Type: Original

Replicate Data: CCV Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.023	3.023	0.0381	0.1560	0.0384	12:36:19 PM	Yes
2	3.042	3.042	0.0383	0.1562	0.0386	12:36:48 PM	Yes
Mean:	3.033	3.033	0.0382				
SD:	0.0134	0.0134	0.0002				
%RSD:	0.44%	0.44%	0.44				

QC value within limits for Hg 253.7 Recovery = 101.09%
All analyte(s) passed QC.

Sequence No.: 12 Autosampler Location: 1
Sample ID: CCB Date Collected: 11/3/2017 12:37:07 PM
Analyst: Data Type: Original

Replicate Data: CCB — Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	0.0014	0.0003	12:37:57 PM	Yes
2	0.001	0.001	0.0000	0.0012	0.0003	12:38:26 PM	Yes
Mean:	-0.000	-0.000	-0.0000				
SD:	0.0012	0.0012	0.0000				
%RSD:	360.09%	360.09%	360.09				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 13 — Autosampler Location: 38
Sample ID: PBW-302169 — Date Collected: 11/3/2017 12:38:45 PM
Analyst: — Data Type: Original

Replicate Data: PBW-302169 — Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	0.0011	0.0003	12:39:34 PM	Yes
2	0.003	0.003	0.0000	0.0019	0.0003	12:40:03 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0019	0.0019	0.0000				
%RSD:	146.15%	146.15%	146.15				

Sequence No.: 14 — Autosampler Location: 39
Sample ID: LCSW-302169 — Date Collected: 11/3/2017 12:40:22 PM
Analyst: — Data Type: Original

Replicate Data: LCSW-302169 — Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.018	1.018	0.0128	0.0529	0.0131	12:41:12 PM	Yes
2	1.007	1.007	0.0127	0.0521	0.0130	12:41:41 PM	Yes
Mean:	1.013	1.013	0.0128				
SD:	0.0080	0.0080	0.0001				
%RSD:	0.79%	0.79%	0.79				

Sequence No.: 15 — Autosampler Location: 40
Sample ID: R1710088-001 — Date Collected: 11/3/2017 12:42:00 PM
Analyst: — Data Type: Original

Replicate Data: R1710088-001 — Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.0000	0.0013	0.0003	12:42:50 PM	Yes
2	-0.003	-0.003	-0.0000	0.0007	0.0003	12:43:19 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0008	0.0008	0.0000				
%RSD:	33.12%	33.12%	33.12				

Sequence No.: 16 — Autosampler Location: 41
Sample ID: R1710088-002 — Date Collected: 11/3/2017 12:43:38 PM
Analyst: — Data Type: Original

Replicate Data: R1710088-002 — Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.000	-0.000	-0.0000	0.0018	0.0003	12:44:28 PM	Yes
2	-0.003	-0.003	-0.0000	0.0011	0.0003	12:44:57 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0019	0.0019	0.0000				
%RSD:	119.14%	119.14%	119.14				

Sequence No.: 17 Autosampler Location: 42
Sample ID: R1710088-002S Date Collected: 11/3/2017 12:45:17 PM
Analyst: Data Type: Original

Replicate Data: R1710088-002S Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.973	0.973	0.0123	0.0516	0.0126	12:46:07 PM	Yes
2	0.976	0.976	0.0123	0.0514	0.0126	12:46:36 PM	Yes
Mean:	0.975	0.975	0.0123				
SD:	0.0018	0.0018	0.0000				
%RSD:	0.19%	0.19%	0.19				

Sequence No.: 18 Autosampler Location: 8
Sample ID: CCV Date Collected: 11/3/2017 12:46:55 PM
Analyst: Data Type: Original

Replicate Data: CCV Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.022	3.022	0.0381	0.1553	0.0384	12:47:44 PM	Yes
2	3.028	3.028	0.0381	0.1553	0.0384	12:48:13 PM	Yes
Mean:	3.025	3.025	0.0381				
SD:	0.0043	0.0043	0.0001				
%RSD:	0.14%	0.14%	0.14				

QC value within limits for Hg 253.7 Recovery = 100.83%
All analyte(s) passed QC.

Sequence No.: 19 Autosampler Location: 1
Sample ID: CCB Date Collected: 11/3/2017 12:48:32 PM
Analyst: Data Type: Original

Replicate Data: CCB Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.008	-0.008	-0.0001	0.0002	0.0002	12:49:21 PM	Yes
2	-0.006	-0.006	-0.0001	0.0006	0.0002	12:49:50 PM	Yes
Mean:	-0.007	-0.007	-0.0001				
SD:	0.0009	0.0009	0.0000				
%RSD:	12.67%	12.67%	12.67				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 20 Autosampler Location: 43
Sample ID: R1710088-002SD Date Collected: 11/3/2017 12:50:09 PM
Analyst: Data Type: Original

Replicate Data: R1710088-002SD Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.954	0.954	0.0120	0.0502	0.0123	12:50:58 PM	Yes
2	0.963	0.963	0.0121	0.0507	0.0124	12:51:27 PM	Yes
Mean:	0.958	0.958	0.0121				
SD:	0.0065	0.0065	0.0001				
%RSD:	0.68%	0.68%	0.68				

Sequence No.: 21 Autosampler Location: 44
Sample ID: R1710088-003 Date Collected: 11/3/2017 12:51:46 PM
Analyst: Data Type: Original

Replicate Data: R1710088-003 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.005	0.005	0.0001	0.0022	0.0003	12:52:36 PM	Yes
2	-0.002	-0.002	-0.0000	0.0014	0.0003	12:53:06 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0047	0.0047	0.0001				
%RSD:	382.07%	382.07%	382.07				

Sequence No.: 22
Sample ID: R1710088-004
Analyst:
Autosampler Location: 45
Date Collected: 11/3/2017 12:53:25 PM
Data Type: Original

Replicate Data: R1710088-004 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.049	0.049	0.0006	0.0037	0.0009	12:54:15 PM	Yes
2	0.051	0.051	0.0006	0.0044	0.0009	12:54:44 PM	Yes
Mean:	0.050	0.050	0.0006				
SD:	0.0015	0.0015	0.0000				
%RSD:	3.04%	3.04%	3.04				

Sequence No.: 23
Sample ID: R1710113-001
Analyst:
Autosampler Location: 46
Date Collected: 11/3/2017 12:55:03 PM
Data Type: Original

Replicate Data: R1710113-001 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	0.0009	0.0003	12:55:53 PM	Yes
2	0.002	0.002	0.0000	0.0014	0.0003	12:56:22 PM	Yes
Mean:	0.001	0.001	0.0000				
SD:	0.0018	0.0018	0.0000				
%RSD:	257.70%	257.70%	257.70				

Sequence No.: 24
Sample ID: R1710113-~~002~~ 003 CK 11/14/17
Analyst:
Autosampler Location: 47
Date Collected: 11/3/2017 12:56:42 PM
Data Type: Original

Replicate Data: R1710113-~~002~~ Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0001	0.0016	0.0003	12:57:32 PM	Yes
2	0.005	0.005	0.0001	0.0020	0.0004	12:58:01 PM	Yes
Mean:	0.005	0.005	0.0001				
SD:	0.0006	0.0006	0.0000				
%RSD:	12.17%	12.17%	12.17				

Sequence No.: 25
Sample ID: CCV
Analyst:
Autosampler Location: 8
Date Collected: 11/3/2017 12:58:20 PM
Data Type: Original

Replicate Data: CCV Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.041	3.041	0.0383	0.1561	0.0386	12:59:10 PM	Yes
2	3.036	3.036	0.0382	0.1559	0.0385	12:59:39 PM	Yes
Mean:	3.039	3.039	0.0383				
SD:	0.0037	0.0037	0.0000				
%RSD:	0.12%	0.12%	0.12				

QC value within limits for Hg 253.7 Recovery = 101.29%
All analyte(s) passed QC.

Sequence No.: 26
Autosampler Location: 1

Sample ID: CCB
Analyst:
Date Collected: 11/3/2017 12:59:58 PM
Data Type: Original

Replicate Data: CCB
Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.003	0.003	0.0000	0.0020	0.0003	1:00:48 PM	Yes
2	-0.007	-0.007	-0.0001	0.0005	0.0002	1:01:17 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0066	0.0066	0.0001				
%RSD:	333.95%	333.95%	333.95				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 27
Sample ID: R1710113-003
Analyst:
002 CK 11/4/17
Autosampler Location: 48
Date Collected: 11/3/2017 1:01:35 PM
Data Type: Original

Replicate Data: R1710113-003
Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.018	0.018	0.0002	0.0021	0.0005	1:02:25 PM	Yes
2	0.015	0.015	0.0002	0.0022	0.0005	1:02:54 PM	Yes
Mean:	0.016	0.016	0.0002				
SD:	0.0016	0.0016	0.0000				
%RSD:	9.60%	9.60%	9.60				

Sequence No.: 28
Sample ID: R1710113-004
Analyst:
Autosampler Location: 49
Date Collected: 11/3/2017 1:03:14 PM
Data Type: Original

Replicate Data: R1710113-004
Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.020	0.020	0.0002	0.0026	0.0005	1:04:04 PM	Yes
2	0.013	0.013	0.0002	0.0014	0.0005	1:04:33 PM	Yes
Mean:	0.016	0.016	0.0002				
SD:	0.0051	0.0051	0.0001				
%RSD:	31.13%	31.13%	31.13				

Sequence No.: 29
Sample ID: R1710113-005
Analyst:
Autosampler Location: 50
Date Collected: 11/3/2017 1:04:53 PM
Data Type: Original

Replicate Data: R1710113-005
Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.0001	0.0002	0.0002	1:05:43 PM	Yes
2	0.001	0.001	0.0000	0.0011	0.0003	1:06:12 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0037	0.0037	0.0000				
%RSD:	189.25%	189.25%	189.25				

Sequence No.: 30
Sample ID: R1710113-006
Analyst:
Autosampler Location: 51
Date Collected: 11/3/2017 1:06:32 PM
Data Type: Original
Repeat

Replicate Data: R1710113-006
Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	12.21	12.21	0.1538	0.6306	0.1541	1:07:22 PM	Yes
	Sample concentration is greater than that of the highest standard.						
2	12.13	12.13	0.1528	0.6232	0.1531	1:07:51 PM	Yes

Sample concentration is greater than that of the highest standard.

Mean:	12.17	12.17	0.1533
SD:	0.054	0.054	0.0007
%RSD:	0.44%	0.44%	0.44

Sample concentration is greater than that of the highest standard.

Sequence No.: 31 **Autosampler Location: 52**
Sample ID: R1710113-007 **Date Collected: 11/3/2017 1:08:11 PM**
Analyst: **Data Type: Original**

Replicate Data: R1710113-007 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	8.168	8.168	0.1029	0.4190	0.1032	1:09:01 PM	Yes
2	8.103	8.103	0.1021	0.4164	0.1024	1:09:29 PM	Yes
Mean:	8.135	8.135	0.1025				
SD:	0.0460	0.0460	0.0006				
%RSD:	0.56%	0.56%	0.56				

Sequence No.: 32 **Autosampler Location: 8**
Sample ID: CCV **Date Collected: 11/3/2017 1:09:49 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.050	3.050	0.0384	0.1552	0.0387	1:10:38 PM	Yes
2	3.046	3.046	0.0384	0.1551	0.0387	1:11:07 PM	Yes
Mean:	3.048	3.048	0.0384				
SD:	0.0025	0.0025	0.0000				
%RSD:	0.08%	0.08%	0.08				

QC value within limits for Hg 253.7 Recovery = 101.60%
All analyte(s) passed QC.

Sequence No.: 33 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 11/3/2017 1:11:26 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	-0.0000	0.0007	0.0003	1:12:16 PM	Yes
2	-0.000	-0.000	-0.0000	0.0013	0.0003	1:12:45 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0019	0.0019	0.0000				
%RSD:	119.38%	119.38%	119.38				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 34 **Autosampler Location: 53**
Sample ID: R1710266-003 **Date Collected: 11/3/2017 1:13:03 PM**
Analyst: **Data Type: Original**

Replicate Data: R1710266-003 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.004	-0.004	-0.0000	0.0009	0.0002	1:13:53 PM	Yes
2	-0.005	-0.005	-0.0001	0.0009	0.0002	1:14:22 PM	Yes
Mean:	-0.004	-0.004	-0.0001				
SD:	0.0011	0.0011	0.0000				
%RSD:	24.83%	24.83%	24.83				

Sequence No.: 35 **Autosampler Location: 54**

Sample ID: R1710266-010 Date Collected: 11/3/2017 1:14:41 PM
Analyst: Data Type: Original

Replicate Data: R1710266-010 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.0001	0.0005	0.0002	1:15:32 PM	Yes
2	-0.004	-0.004	-0.0001	0.0010	0.0002	1:16:01 PM	Yes
Mean:	-0.005	-0.005	-0.0001				
SD:	0.0006	0.0006	0.0000				
%RSD:	13.83%	13.83%	13.83				

Sequence No.: 36 Autosampler Location: 55
Sample ID: R1710266-011 Date Collected: 11/3/2017 1:16:20 PM
Analyst: Data Type: Original

Replicate Data: R1710266-011 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.000	0.000	0.0000	0.0016	0.0003	1:17:10 PM	Yes
2	-0.008	-0.008	-0.0001	0.0005	0.0002	1:17:39 PM	Yes
Mean:	-0.004	-0.004	-0.0000				
SD:	0.0058	0.0058	0.0001				
%RSD:	154.48%	154.48%	154.48				

Sequence No.: 37 Autosampler Location: 56
Sample ID: R1710266-017 Date Collected: 11/3/2017 1:17:58 PM
Analyst: Data Type: Original

Replicate Data: R1710266-017 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.003	-0.003	-0.0000	0.0004	0.0003	1:18:48 PM	Yes
2	-0.003	-0.003	-0.0000	0.0008	0.0003	1:19:16 PM	Yes
Mean:	-0.003	-0.003	-0.0000				
SD:	0.0000	0.0000	0.0000				
%RSD:	0.53%	0.53%	0.53				

Sequence No.: 38 R1710113-006 RPT 5X KSM 11/3/17 Autosampler Location: 73
Sample ID: ~~R1710133-006 RPT 5X~~ Date Collected: 11/3/2017 1:19:36 PM
Analyst: Data Type: Original

Replicate Data: R1710133-006 RPT 5X Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.993	2.993	0.0377	0.1449	0.0380	1:20:27 PM	Yes
2	2.796	2.796	0.0352	0.1354	0.0355	1:20:56 PM	Yes
Mean:	2.895	2.895	0.0365				
SD:	0.1396	0.1396	0.0018				
%RSD:	4.82%	4.82%	4.82				

Sequence No.: 39 Autosampler Location: 57
Sample ID: R1710266-018 Date Collected: 11/3/2017 1:21:16 PM
Analyst: Data Type: Original

Replicate Data: R1710266-018 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	0.0015	0.0003	1:22:06 PM	Yes
2	-0.001	-0.001	-0.0000	0.0013	0.0003	1:22:35 PM	Yes
Mean:	-0.001	-0.001	-0.0000				
SD:	0.0005	0.0005	0.0000				
%RSD:	42.40%	42.40%	42.40				

Sequence No.: 40 Autosampler Location: 8
Sample ID: CCV Date Collected: 11/3/2017 1:22:55 PM
Analyst: Data Type: Original

Replicate Data: CCV Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.028	3.028	0.0381	0.1558	0.0384	1:23:44 PM	Yes
2	3.021	3.021	0.0380	0.1546	0.0383	1:24:13 PM	Yes
Mean:	3.024	3.024	0.0381				
SD:	0.0055	0.0055	0.0001				
%RSD:	0.18%	0.18%	0.18				

QC value within limits for Hg 253.7 Recovery = 100.81%
All analyte(s) passed QC.

Sequence No.: 41 Autosampler Location: 1
Sample ID: CCB Date Collected: 11/3/2017 1:24:32 PM
Analyst: Data Type: Original

Replicate Data: CCB Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0001	0.0004	0.0002	1:25:21 PM	Yes
2	-0.006	-0.006	-0.0001	0.0005	0.0002	1:25:50 PM	Yes
Mean:	-0.006	-0.006	-0.0001				
SD:	0.0001	0.0001	0.0000				
%RSD:	1.43%	1.43%	1.43				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 42 Autosampler Location: 73
Sample ID: R1710113-006 RPT 5X Date Collected: 11/3/2017 1:26:09 PM
Analyst: Data Type: Original

Not Needed AM 11/3/17

Replicate Data: R1710113-006 RPT 5X Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.904	2.904	0.0366	0.1407	0.0369	1:27:00 PM	Yes
2	2.815	2.815	0.0355	0.1363	0.0358	1:27:28 PM	Yes
Mean:	2.860	2.860	0.0360				
SD:	0.0629	0.0629	0.0008				
%RSD:	2.20%	2.20%	2.20				

Sequence No.: 43 Autosampler Location: 58
Sample ID: R1710266-019 Date Collected: 11/3/2017 1:27:49 PM
Analyst: Data Type: Original

Replicate Data: R1710266-019 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.009	-0.009	-0.0001	0.0002	0.0002	1:28:39 PM	Yes
2	-0.006	-0.006	-0.0001	0.0005	0.0002	1:29:07 PM	Yes
Mean:	-0.008	-0.008	-0.0001				
SD:	0.0022	0.0022	0.0000				
%RSD:	28.23%	28.23%	28.23				

Sequence No.: 44 Autosampler Location: 59
Sample ID: R1710304-002 Date Collected: 11/3/2017 1:29:27 PM
Analyst: Data Type: Original

Replicate Data: R1710304-002 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.002	-0.002	-0.0000	0.0013	0.0003	1:30:17 PM	Yes
2	-0.007	-0.007	-0.0001	0.0006	0.0002	1:30:47 PM	Yes
Mean:	-0.005	-0.005	-0.0001				
SD:	0.0041	0.0041	0.0001				
%RSD:	90.39%	90.39%	90.39				

Sequence No.: 45 **Autosampler Location: 60**
Sample ID: R1710312-001 **Date Collected: 11/3/2017 1:31:07 PM**
Analyst: **Data Type: Original**

Replicate Data: R1710312-001 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0001	0.0006	0.0002	1:31:57 PM	Yes
2	0.003	0.003	0.0000	0.0017	0.0003	1:32:26 PM	Yes
Mean:	-0.002	-0.002	-0.0000				
SD:	0.0059	0.0059	0.0001				
%RSD:	374.17%	374.17%	374.17				

Sequence No.: 46 **Autosampler Location: 61**
Sample ID: R1710312-002 **Date Collected: 11/3/2017 1:32:46 PM**
Analyst: **Data Type: Original**

Replicate Data: R1710312-002 **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.006	-0.006	-0.0001	0.0001	0.0002	1:33:37 PM	Yes
2	-0.002	-0.002	-0.0000	0.0005	0.0003	1:34:06 PM	Yes
Mean:	-0.004	-0.004	-0.0001				
SD:	0.0029	0.0029	0.0000				
%RSD:	70.60%	70.60%	70.60				

Sequence No.: 47 **Autosampler Location: 2**
Sample ID: MRL **Date Collected: 11/3/2017 1:34:26 PM**
Analyst: **Data Type: Original**

Replicate Data: MRL **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.195	0.195	0.0025	0.0109	0.0028	1:35:15 PM	Yes
2	0.199	0.199	0.0025	0.0117	0.0028	1:35:45 PM	Yes
Mean:	0.197	0.197	0.0025				
SD:	0.0023	0.0023	0.0000				
%RSD:	1.14%	1.14%	1.14				

QC value within limits for Hg 253.7 Recovery = 98.46%
All analyte(s) passed QC.

Sequence No.: 48 **Autosampler Location: 8**
Sample ID: CCV **Date Collected: 11/3/2017 1:36:03 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV **Analyte: Hg 253.7**

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.045	3.045	0.0384	0.1558	0.0387	1:36:53 PM	Yes
2	3.035	3.035	0.0382	0.1553	0.0385	1:37:22 PM	Yes
Mean:	3.040	3.040	0.0383				
SD:	0.0074	0.0074	0.0001				
%RSD:	0.24%	0.24%	0.24				

QC value within limits for Hg 253.7 Recovery = 101.34%
All analyte(s) passed QC.

Sequence No.: 49 Autosampler Location: 1
Sample ID: CCB Date Collected: 11/3/2017 1:37:41 PM
Analyst: Data Type: Original

Replicate Data: CCB Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.001	-0.001	-0.0000	0.0008	0.0003	1:38:32 PM	Yes
2	-0.001	-0.001	-0.0000	0.0015	0.0003	1:39:01 PM	Yes
Mean:	-0.001	-0.001	-0.0000				
SD:	0.0001	0.0001	0.0000				
%RSD:	14.61%	14.61%	14.61				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 50 Autosampler Location: 62
Sample ID: Sample062 Date Collected: 11/3/2017 1:39:19 PM
Analyst: Data Type: Original

Replicate Data: Sample062 Analyte: Hg 253.7

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.021	-0.021	-0.0003	0.0001	0.0000	1:40:09 PM	Yes
2	-0.022	-0.022	-0.0003	-0.0000	0.0000	1:40:38 PM	Yes
Mean:	-0.022	-0.022	-0.0003				
SD:	0.0009	0.0009	0.0000				
%RSD:	4.03%	4.03%	4.03				

Preparation Information Benchsheet

Prep Run#: 302169 **Prep WorkFlow:** HgDigAq **Status:** Prepped
Team: Metals/KMCLAEN **Prep Method:** Method **Prep Date/Time:** 11/2/17 10:30 AM

#	Lab Code	Client ID	B#	Amt. Ext.	Method /Test	pH	AE	BN	Final Vol	Sample Desc. (Initial/Final)	SpikeAmt./Inv. ID	Comments
1	RQ1711370-01	MB		25mL	7470A/Hg D, Hg T				25.00mL			HB: 8 Well: B3 Temp: 92.0C/94.0C Corr. Factor: -1.0C Corr. Temp: 91.0C/93.0C
2	RQ1711370-02	LCS		25mL	7470A/Hg D, Hg T				25.00mL		0.2500 mL/185258	
3	R1710088-001	PCBM-01-1017	.09	25mL	7470A/Hg T				25.00mL			
4	R1710088-002	PCBM-02-1017	.09	25mL	7470A/Hg T				25.00mL			
5	RQ1711370-03	R1710088-002 MS	.09	25mL	7470A/Hg T				25.00mL		0.2500 mL/185258	
6	RQ1711370-04	R1710088-002 DMS	.09	25mL	7470A/Hg T				25.00mL		0.2500 mL/185258	
7	R1710088-003	PCM-03-1017	.09	25mL	7470A/Hg T				25.00mL			
8	R1710088-004	PCM-04-1017	.09	25mL	7470A/Hg T				25.00mL			
9	R1710113-001	MW-7	.03	25mL	7470A/Hg T				25.00mL			
10	R1710113-002	MW-3	.03	25mL	7470A/Hg T				25.00mL			
11	R1710113-003	MW-3 Diss	.02	25mL	7470A/Hg D				25.00mL			
12	R1710113-004	MW-D	.03	25mL	7470A/Hg T				25.00mL			
13	R1710113-005	MW-D Diss	.02	25mL	7470A/Hg D				25.00mL			
14	R1710113-006	MW-8	.03	25mL	7470A/Hg T				25.00mL			
15	R1710113-007	MW-8 Diss	.02	25mL	7470A/Hg D				25.00mL			
16	R1710266-003	1710261253B JER-2-504	.02	25mL	7470A/Hg T				25.00mL			
17	R1710266-010	1710261305B JER-2-584	.02	25mL	7470A/Hg T				25.00mL			
18	R1710266-011	1710261309B JER-2-584	.02	25mL	7470A/Hg T				25.00mL			
19	R1710266-017	1710280433 B655-EFF-2	.02	25mL	7470A/Hg T				25.00mL			
20	R1710266-018	1710280434 B655-EFF-2	.02	25mL	7470A/Hg T				25.00mL			
21	R1710266-019	1710280503 B655-INF-2	.02	25mL	7470A/Hg T				25.00mL			
22	R1710304-002	NEX-0007-(S)	.01	25mL	7470A/Hg T				25.00mL			
23	R1710312-001	EFF-103117	.16	25mL	7470A/Hg T				25.00mL			
24	R1710312-002	INF-103117	.16	25mL	7470A/Hg T				25.00mL			

Spiking Solutions

Name: Mercury LCSW Metals Hg Inventory ID 185258 Logbook Ref: 185258 Expires On: 11/03/2017

Preparation Materials

Hot Block Cups	50 mL Lot 1703076 (182080)	Sulfuric Acid Reagent Grade H2SO4	M7080009S (173657)	Nitric Acid Metals Grade HNO3	M7600002W (184969)
Hydroxylamine Hydrochloride Reagent Grade	M7600002C (184971)	Potassium Permanganate RG KMnO4	M7600002E (183698)	Potassium Persulfate RG K2S2O8	M7080011E (176626)
Thermometer	395 (171673)				

Preparation Information Benchsheet

Prep Run#: 302169 | **Prep WorkFlow:** HgDigAq | **Status:** Prepped
Team: Metals/KMCLAEN | **Prep Method:** Method | **Prep Date/Time:** 11/2/17 10:30 AM

Preparation Steps

Step: Digestion
Started: 11/2/17 10:30
Finished: 11/2/17 15:23
By: KMCLAEN
Comments

Comments: prepped with curve M7590074I

Reviewed By: Nicol [signature] Date: 11/3/17

Chain of Custody

Relinquished By:	[signature]	Date: 11/2/17	Extracts Examined	
Received By:	RA01	Date: 11/2/17	Yes	No

MERCURY CCV / LCSW / MS STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg CCV Stk A	M7600001Q	1000	1.00	100	10	0.5%HNO3	KSM 11/2/17	A	M7600002W	11/9/17	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg CCV StkB	Hg CCV Stk A	10.0	1.00	100	0.100	0.5%HNO3	KSM 11/2/17	B	M7600002W	M28
							KSM 11/2/17	C	M7600002W	M28
								D		
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CCV Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/ Soil	Analyst/ Date	Letter ID	Pipet ID
CCV	Hg CCV Stk B	0.100	3.00	0.75	Soils- Final vol. 100mL after digest. Water – Final Vol of 25 mL before digest.	3.00	Water	KSM 11/2/17	I	M26
LCS / MS			1.00	0.25		1.00	Soil	KSM 11/2/17	J	M26
									K	
									L	
									M	
									N	
									O	

MERCURY CALIBRATION / CRDL STANDARDS

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Expiration Date	Pipet ID
Hg Cal Stk A	M760000 1V	1000	1.00	100	10	0.5%HNO3	KSM 11/2/17	A	M760000 2W	11/9/17	M28

(PREPARED DAILY)

Standard	ALS Lot #	Conc. (ppm)	Vol. (mls)	Final Vol. (mls)	Final Conc. (ppm)	Matrix	Analyst/ Date	Letter ID	Nitric Acid Lot #	Pipet ID
Hg Cal StkB	Hg Cal Stk A	10.0	1.00	100	0.100	0.5%HNO3	KSM 11/2/17	B	M760000 2W	M28
							KSM 11/2/17	C	M760000 2W	M28
								D		
								E		
								F		
								G		
								H		

(PREPARED AND DIGESTED DAILY WITH SAMPLE PREP RUNS)

CAL Standard (ppb)	ALS Lot #	Conc. (ppm)	Vol. (mL) Soil	Vol. (mL) Water	Final Vol. (mls)	Final Conc. (ppb)	Water/ Soil	Analyst/ Date	Letter ID	Pipet ID
0.200	Hg Cal Stk B	0.100	0.200	0.05	Soils- Dilute to 10mL w/ DI. Final vol. 100mL after digest. Water – dilute to Final Vol of 25 mL with DI before digest.	0.200	Water	KSM 11/2/17	I	M26, M31
0.500			0.500	0.125		0.500	Soil	KSM 11/2/17	J	M26
1.00			1.00	0.25		1.00			K	
2.00			2.00	0.5		2.00			L	
5.00			5.00	1.25		5.00			M	
10.0			10.0	2.5		10.0			N	
CRA			0.200	0.05		0.200			O	

Sample Dilutions

Analyst: KSM Date 11/3/17

Instrument: FIMS-II Analysis 7470A

Common Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor
1/2	HNO3/HCL	3	3	1/2												
1/3	HNO3/HCL	3	6	1/3												
1/4	HNO3/HCL	2	6	1/4												
1/5	HNO3/HCL	2	8	1/5												
1/10	HNO3/HCL	1	9	1/10												
1/20	HNO3/HCL	3	3	1/2	1	9	1/20									
1/30	HNO3/HCL	3	6	1/3	1	9	1/30									
1/40	HNO3/HCL	1	3	1/4	1	9	1/40									
1/50	HNO3/HCL	1	4	1/5	1	9	1/50									
1/100	HNO3/HCL	1	9	1/10	1	9	1/100									
1/200	HNO3/HCL	3	3	1/2	1	9	1/20	1	9	1/200						
1/300	HNO3/HCL	3	6	1/3	1	9	1/30	1	9	1/300						
1/400	HNO3/HCL	1	3	1/4	1	9	1/40	1	9	1/400						
1/500	HNO3/HCL	1	4	1/5	1	9	1/50	1	9	1/500						
1/1000	HNO3/HCL	1	9	1/10	1	9	1/100	1	9	1/1000						
1/2000	HNO3/HCL	3	3	1/2	1	9	1/20	1	9	1/200	1	9	1/2000			
1/3000	HNO3/HCL	3	6	1/3	1	9	1/30	1	9	1/300	1	9	1/3000			
1/4000	HNO3/HCL	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000			
1/10000	HNO3/HCL	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000			
1/20000	HNO3/HCL	1	1	1/2	1	9	1/20	1	9	1/200	1	9	1/2000	1	9	1/20000
1/40000	HNO3/HCL	1	3	1/4	1	9	1/40	1	9	1/400	1	9	1/4000	1	9	1/40000
1/100000	HNO3/HCL	1	9	1/10	1	9	1/100	1	9	1/1000	1	9	1/10000	1	9	1/100000

Special Dilutions

Dilution	Matrix of Diluent	1st Dilution			2nd Dilution			3rd Dilution			4th Dilution			5th Dilution		
		mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor	mL's of Sample	mL's of Diluent	Dilution Factor

Analytical Results Summary

Instrument Name: R-CVAA-02 **Analyst:** KMCLAEN **Analysis Lot:** 568758 **Method/Testcode:** 7470A/Hg D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1711370-01	Mercury, Dissolved	MB		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 12:40	N	II
RQ1711370-01	Mercury, Total	MB		Water	0.00 µg/L	25 mL	0.00020 mg/L U	1	0.00009	0.00020			11/3/17 12:40	N	II
RQ1711370-02	Mercury, Dissolved	LCS		Water	1.01 µg/L	25 mL	1.01 µg/L	1	0.09	0.20	101		11/3/17 12:41	N	II
RQ1711370-02	Mercury, Total	LCS		Water	1.01 µg/L	25 mL	0.00101 mg/L	1	0.00009	0.00020	101		11/3/17 12:41	N	II
R1710088-001	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 12:43	N	II
R1710088-002	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 12:44	Y	II
RQ1711370-03	Mercury, Total	MS	R1710088-002	Water	0.97 µg/L	25 mL	0.97 µg/L	1	0.09	0.20	97		11/3/17 12:46	N	II
RQ1711370-04	Mercury, Total	DMS	R1710088-002	Water	0.96 µg/L	25 mL	0.96 µg/L	1	0.09	0.20	96	2	11/3/17 12:51	N	II
R1710088-003	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 12:53	N	II
R1710088-004	Mercury, Total	N/A		Water	0.05 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 12:54	N	II
R1710113-001	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 12:56	N	IV
R1710113-003	Mercury, Dissolved	N/A		Water	0.01 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 12:58:00	N	IV
R1710113-002	Mercury, Total	N/A		Water	0.02 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 13:02:00	N	IV
R1710113-004	Mercury, Total	N/A		Water	0.02 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 13:04	N	IV
R1710113-005	Mercury, Dissolved	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 13:06	N	IV
R1710113-007	Mercury, Dissolved	N/A		Water	8.14 µg/L	25 mL	8.14 µg/L	1	0.09	0.20			11/3/17 13:09	N	IV
R1710266-003	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.00020 mg/L U	1	0.00009	0.00020			11/3/17 13:14	N	IV
R1710266-010	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.00020 mg/L U	1	0.00009	0.00020			11/3/17 13:16	N	IV
R1710266-011	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.00020 mg/L U	1	0.00009	0.00020			11/3/17 13:17	N	IV
R1710266-017	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.00020 mg/L U	1	0.00009	0.00020			11/3/17 13:19	N	IV
R1710113-006	Mercury, Total	N/A		Water	2.89 µg/L	25 mL	14.5 µg/L	5	0.5	1.0			11/3/17 13:20	N	IV
R1710266-018	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.00020 mg/L U	1	0.00009	0.00020			11/3/17 13:22	N	IV
R1710266-019	Mercury, Total	N/A		Water	-0.01 µg/L	25 mL	0.00020 mg/L U	1	0.00009	0.00020			11/3/17 13:29	N	IV
R1710304-002	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 13:30	N	II
R1710312-001	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 13:32	N	II
R1710312-002	Mercury, Total	N/A		Water	0.00 µg/L	25 mL	0.20 µg/L U	1	0.09	0.20			11/3/17 13:34	N	II

I indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

METALS
-2A-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	10000	9420	94	10000	9220	92	9260	93	P
Antimony	5000	4870	97	5000	4800	96	4770	95	P
Arsenic	1000	962	96	1000	945	94	947	95	P
Barium	10000	10200	102	10000	10100	101	10100	101	P
Beryllium	250	251	100	250	248	99	247	99	P
Cadmium	500	498	100	500	494	99	494	99	P
Mercury	3.00	3.04	101	3.00	3.03	101	3.02	101	CV
Chromium	500	500	100	500	498	100	497	99	P
Cobalt	2500	2570	103	2500	2550	102	2540	102	P
Copper	1250	1200	96	1250	1160	93	1150	92	P
Iron	5000	4810	96	5000	4750	95	4790	96	P
Lead	500	498	100	500	493	99	490	98	P
Magnesium	25000	24900	100	25000	24700	99	24800	99	P
Nickel	2000	2030	102	2000	2000	100	1990	100	P
Potassium	25000	24500	98	25000	23900	96	23700	95	P
Selenium	500	479	96	500	485	97	479	96	P
Silver	500	486	97	500	479	96	477	95	P
Sodium	25000	24500	98	25000	24000	96	23700	95	P
Thallium	1000	978	98	1000	960	96	954	95	P
Vanadium	2500	2500	100	2500	2460	98	2450	98	P
Zinc	1000	997	100	1000	991	99	989	99	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000	9530	95	9670	97	P
Antimony				5000	4940	99	5020	100	P
Arsenic				1000	974	97	1000	100	P
Barium				10000	10500	105	10700	107	P
Beryllium				250	256	102	260	104	P
Cadmium				500	512	102	524	105	P
Mercury				3.00	3.04	101	3.05	102	CV
Chromium				500	516	103	527	105	P
Cobalt				2500	2640	106	2690	108	P
Copper				1250	1190	95	1210	97	P
Iron				5000	4930	99	5350	107	P
Lead				500	507	101	525	105	P
Magnesium				25000	25600	102	26300	105	P
Nickel				2000	2070	104	2110	106	P
Potassium				25000	24600	98	24600	98	P
Selenium				500	503	101	512	102	P
Silver				500	494	99	501	100	P
Sodium				25000	24600	98	24700	99	P
Thallium				1000	989	99	997	100	P
Vanadium				2500	2550	102	2590	104	P
Zinc				1000	1030	103	1050	105	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				10000	9490	95	9660	97	P
Antimony				5000	4960	99	5000	100	P
Arsenic				1000	984	98	991	99	P
Barium				10000	10500	105	10600	106	P
Beryllium				250	257	103	259	104	P
Cadmium				500	519	104	522	104	P
Mercury				3.00	3.02	101	3.04	101	CV
Chromium				500	520	104	526	105	P
Cobalt				2500	2660	106	2680	107	P
Copper				1250	1190	95	1200	96	P
Iron				5000	4980	100	5060	101	P
Lead				500	517	103	517	103	P
Magnesium				25000	25800	103	26100	104	P
Nickel				2000	2090	104	2100	105	P
Potassium				25000	24200	97	24300	97	P
Selenium				500	503	101	508	102	P
Silver				500	497	99	499	100	P
Sodium				25000	24300	97	24500	98	P
Thallium				1000	989	99	997	100	P
Vanadium				2500	2560	102	2580	103	P
Zinc				1000	1040	104	1040	104	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium	25000	24200	97	25000	24300	97	24300	97	P
Iron	5000	4860	97	5000	4880	98	4860	97	P
Lead	500	500	100	500	499	100	499	100	P
Magnesium	25000	25000	100	25000	25000	100	25000	100	P
Manganese	750	753	100	750	753	100	755	101	P
Selenium	500	485	97	500	480	96	485	97	P
Thallium	1000	987	99	1000	990	99	991	99	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Calcium				25000	24400	98	24400	98	P
Iron				5000	4890	98	4930	99	P
Lead				500	503	101	504	101	P
Magnesium				25000	25200	101	25300	101	P
Manganese				750	760	101	765	102	P
Selenium				500	485	97	488	98	P
Thallium				1000	996	100	999	100	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Calcium				25000	24600	98	24500	98	P
Iron				5000	4910	98	4900	98	P
Lead				500	503	101	500	100	P
Magnesium				25000	25100	100	25200	101	P
Manganese				750	761	101	761	101	P
Selenium				500	482	96	484	97	P
Thallium				1000	999	100	1000	100	P

Comments:

METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Initial Calibration Source: PERKIN ELMER

Continuing Calibration Source: PERKIN ELMER

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium				25000	24500	98			P
Iron				5000	4930	99			P
Lead				500	506	101			P
Magnesium				25000	25300	101			P
Manganese				750	766	102			P
Selenium				500	489	98			P
Thallium				1000	1000	100			P

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Antimony	60.00	U	60.00	U	60.00	U	60.00	U	60.000	U	P
Arsenic	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Barium	20.00	U	20.00	U	20.00	U	20.00	U	20.000	U	P
Beryllium	3.00	U	3.00	U	3.00	U	3.00	U	3.000	U	P
Cadmium	5.00	U	5.00	U	5.00	U	5.00	U	5.000	U	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	CV
Chromium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Cobalt	50.00	U	50.00	U	50.00	U	50.00	U	50.000	U	P
Copper	20.00	U	20.00	U	20.00	U	20.00	U	20.000	U	P
Iron	100.00	U	100.00	U	100.00	U	100.00	U	100.000	U	P
Lead	50.00	U	50.00	U	50.00	U	50.00	U	50.000	U	P
Magnesium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Nickel	40.00	U	40.00	U	40.00	U	40.00	U	40.000	U	P
Potassium	2000.00	U	2000.00	U	2000.00	U	2000.00	U	2000.000	U	P
Selenium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Silver	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Sodium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Thallium	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Vanadium	50.00	U	50.00	U	50.00	U	50.00	U	50.000	U	P
Zinc	20.00	U	20.00	U	20.00	U	20.00	U	20.000	U	P

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			100.00	U	100.00	U	100.00	U			P
Antimony			60.00	U	60.00	U	60.00	U			P
Arsenic			10.00	U	10.00	U	10.00	U			P
Barium			20.00	U	20.00	U	20.00	U			P
Beryllium			3.00	U	3.00	U	3.00	U			P
Cadmium			5.00	U	5.00	U	5.00	U			P
Mercury			0.200	U	0.200	U	0.200	U			CV
Chromium			10.00	U	10.00	U	10.00	U			P
Cobalt			50.00	U	50.00	U	50.00	U			P
Copper			20.00	U	20.00	U	20.00	U			P
Iron			100.00	U	100.00	U	100.00	U			P
Lead			50.00	U	50.00	U	50.00	U			P
Magnesium			1000.00	U	1000.00	U	1000.00	U			P
Nickel			40.00	U	40.00	U	40.00	U			P
Potassium			2000.00	U	2000.00	U	2000.00	U			P
Selenium			10.00	U	10.00	U	10.00	U			P
Silver			10.00	U	10.00	U	10.00	U			P
Sodium			1000.00	U	1000.00	U	1000.00	U			P
Thallium			10.00	U	10.00	U	10.00	U			P
Vanadium			50.00	U	50.00	U	50.00	U			P
Zinc			20.00	U	20.00	U	20.00	U			P

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Calcium	1000.00	U	1000.00	U	1000.00	U	1000.00	U	1000.000	U	P
Iron	100.00	U	100.00	U	100.00	U	100.00	U			P
Lead	50.00	U	50.00	U	50.00	U	50.00	U			P
Magnesium	1000.00	U	1000.00	U	1000.00	U	1000.00	U			P
Manganese	10.00	U	10.00	U	10.00	U	10.00	U	10.000	U	P
Selenium	10.00	U	10.00	U	10.00	U	10.00	U			P
Thallium	10.00	U	10.00	U	10.00	U	10.00	U			P

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Calcium			1000.00	U	1000.00	U	1000.00	U			P
Iron			100.00	U	100.00	U	100.00	U			P
Lead			50.00	U	50.00	U	50.00	U			P
Magnesium			1000.00	U	1000.00	U	1000.00	U			P
Manganese			10.00	U	10.00	U	10.00	U			P
Selenium			10.00	U	10.00	U	10.00	U			P
Thallium			10.00	U	10.00	U	10.00	U			P

Comments:

METALS

-3-

BLANKS

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: MW-7

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
Calcium			1000.00	U							P
Iron			100.00	U							P
Lead			50.00	U							P
Magnesium			1000.00	U							P
Manganese			10.00	U							P
Selenium			10.00	U							P
Thallium			10.00	U							P

Comments:

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 11/1/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
BLANK	1.00	17:20								X				X	X	X	X				X			X						
STANDARD 1	1.00	17:24								X				X	X	X	X				X			X						
STANDARD 2	1.00	17:27								X				X	X	X	X				X			X						
STANDARD 3	1.00	17:30								X				X	X	X	X				X			X						
STANDARD 4	1.00	17:34								X				X	X	X	X				X			X						
STANDARD 5	1.00	17:37								X				X	X	X	X				X			X						
ICV2	1.00	17:40								X				X	X	X	X				X			X						
ICB2	1.00	17:44								X				X	X	X	X				X			X						
CRDL1	1.00	17:47								X				X	X	X	X				X			X						
ICS-A1	1.00	17:50								X				X	X	X	X				X			X						
ICS-AB1	1.00	17:54								X				X	X	X	X				X			X						
CCV1	1.00	17:57								X				X	X	X	X				X			X						
CCB1	1.00	18:00								X				X	X	X	X				X			X						
ZZZZZZ	1.00	18:04																												
ZZZZZZ	1.00	18:07																												
ZZZZZZ	10.00	18:10																												
ZZZZZZ	10.00	18:13																												
ZZZZZZ	1.00	18:17																												
ZZZZZZ	1.00	18:20																												
ZZZZZZ	1.00	18:23																												
ZZZZZZ	5.00	18:27																												
PBW	1.00	18:30								X							X													
LCSW	1.00	18:33								X							X													
CCV2	1.00	18:37								X				X	X	X	X				X			X						
CCB2	1.00	18:40								X				X	X	X	X				X			X						
ZZZZZZ	1.00	18:43																												
ZZZZZZ	1.00	18:47																												
ZZZZZZ	1.00	18:50																												
ZZZZZZ	1.00	18:53																												
ZZZZZZ	5.00	18:57																												
ZZZZZZ	1.00	19:00																												
ZZZZZZ	1.00	19:03																												
ZZZZZZ	1.00	19:07																												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 11/1/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	10.00	19:10																												
ZZZZZZ	1.00	19:13																												
CCV3	1.00	19:17								X				X	X	X	X				X			X						
CCB3	1.00	19:20								X				X	X	X	X				X			X						
ZZZZZZ	1.00	19:23																												
ZZZZZZ	10.00	19:27																												
ZZZZZZ	1.00	19:30																												
MW-7	10.00	19:33								X							X							X						
MW-7	1.00	19:36																												
MW-3 Diss	100.00	19:40												X																
MW-3 Diss	10.00	19:43								X						X	X			X				X						
MW-3 Diss	2.00	19:46																												
MW-3 Diss	1.00	19:50													X															
MW-3	100.00	19:53												X																
CCV4	1.00	19:56								X				X	X	X	X				X			X						
CCB4	1.00	20:00								X				X	X	X	X				X			X						
MW-3	10.00	20:03								X							X			X				X						
MW-3	2.00	20:06																			X									
MW-3	1.00	20:10																												
MW-D	100.00	20:13												X																
MW-D	10.00	20:16								X							X			X				X						
MW-D	2.00	20:20																												
MW-D Diss	100.00	20:23												X																
MW-D Diss	10.00	20:26								X							X			X										
CCV5	1.00	20:30								X				X	X	X	X				X			X						
CCB5	1.00	20:33								X				X	X	X	X				X			X						
MW-D Diss	2.00	20:36																						X						
MW-D Diss	1.00	20:40																			X									
MW-8	10.00	20:43								X				X	X		X			X										
MW-8 Diss	10.00	20:46								X				X	X		X													
MW-8 Diss	1.00	20:49																			X									
ZZZZZZ	10.00	20:53																												
ZZZZZZ	1.00	20:56																												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 11/1/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	20:59																												
ZZZZZZ	1.00	21:03																												
CCV6	1.00	21:06								X				X	X	X	X				X			X			
CCB6	1.00	21:09								X				X	X	X	X				X			X			
CRDL2	1.00	21:13								X				X	X	X	X				X			X			
ICS-A2	1.00	21:16								X				X	X	X	X				X			X			
ICS-AB2	1.00	21:19								X				X	X	X	X				X			X			
ZZZZZZ	1.00	21:23																												
ZZZZZZ	1.00	21:26																												
ZZZZZZ	1.00	21:29																												
CCV7	1.00	21:33								X				X	X	X	X				X			X			
CCB7	1.00	21:36								X				X	X	X	X				X			X			

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 10/31/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																									
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
BLANK	1.00	18:19		X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		
STANDARD 1	1.00	18:22		X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		
STANDARD 2	1.00	18:25		X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		
STANDARD 3	1.00	18:29		X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		
STANDARD 4	1.00	18:32		X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		
STANDARD 5	1.00	18:35		X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		
ICV1	1.00	18:39		X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		
ICB1	1.00	18:42		X	X	X	X	X	X		X	X	X	X	X	X	X			X	X	X	X	X	X	X	X		
ZZZZZZ	1.00	18:45																											
ZZZZZZ	1.00	18:49																											
ZZZZZZ	1.00	18:52																											
ZZZZZZ	1.00	18:55																											
ZZZZZZ	1.00	18:59																											
ZZZZZZ	1.00	19:02																											
ZZZZZZ	1.00	19:05																											
ZZZZZZ	1.00	19:09																											
ZZZZZZ	1.00	19:12																											
ZZZZZZ	100.00	19:15																											
ZZZZZZ	1.00	19:19																											
ZZZZZZ	1.00	19:22																											
ZZZZZZ	1.00	19:25																											
ZZZZZZ	1.00	19:29																											
ZZZZZZ	1.00	19:32																											
ZZZZZZ	1.00	19:35																											
ZZZZZZ	1.00	19:39																											
ZZZZZZ	5.00	19:42																											
ZZZZZZ	1.00	19:45																											
ZZZZZZ	10.00	19:48																											
ZZZZZZ	1.00	19:52																											
ZZZZZZ	1.00	19:55																											
ZZZZZZ	100.00	19:58																											
ZZZZZZ	1.00	20:02																											
ZZZZZZ	1.00	20:05																											

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 10/31/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																											
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN				
ZZZZZZ	10.00	20:08																													
ZZZZZZ	1.00	20:12																													
ZZZZZZ	1.00	20:15																													
ZZZZZZ	1.00	20:18																													
ZZZZZZ	1.00	20:22																													
ZZZZZZ	1.00	20:25																													
ZZZZZZ	1.00	20:28																													
ZZZZZZ	1.00	20:32																													
ZZZZZZ	1.00	20:35																													
ZZZZZZ	1.00	20:38																													
ZZZZZZ	1.00	20:42																													
ZZZZZZ	1.00	20:45																													
ZZZZZZ	1.00	20:48																													
ZZZZZZ	1.00	20:52																													
ZZZZZZ	1.00	20:55																													
ZZZZZZ	1.00	20:58																													
ZZZZZZ	1.00	21:02																													
ZZZZZZ	1.00	21:05																													
ZZZZZZ	1.00	21:08																													
ZZZZZZ	1.00	21:11																													
ZZZZZZ	1.00	21:15																													
ZZZZZZ	1.00	21:18																													
ZZZZZZ	1.00	21:21																													
ZZZZZZ	1.00	21:25																													
ZZZZZZ	5.00	21:28																													
ZZZZZZ	1.00	21:31																													
ZZZZZZ	1.00	21:35																													
ZZZZZZ	1.00	21:38																													
ZZZZZZ	1.00	21:41																													
ZZZZZZ	1.00	21:45																													
ZZZZZZ	1.00	21:48																													
ZZZZZZ	1.00	21:51																													
ZZZZZZ	1.00	21:55																													

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 10/31/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	21:58																												
ZZZZZZ	1.00	22:01																												
ZZZZZZ	1.00	22:05																												
ZZZZZZ	5.00	22:08																												
ZZZZZZ	1.00	22:11																												
ZZZZZZ	1.00	22:14																												
ZZZZZZ	1.00	22:18																												
ZZZZZZ	1.00	22:21																												
ZZZZZZ	1.00	22:24																												
ZZZZZZ	1.00	22:28																												
ZZZZZZ	1.00	22:31																												
ZZZZZZ	1.00	22:34																												
ZZZZZZ	1.00	22:38																												
ZZZZZZ	1.00	22:41																												
ZZZZZZ	1.00	22:44																												
ZZZZZZ	1.00	22:48																												
ZZZZZZ	1.00	22:51																												
ZZZZZZ	1.00	22:54																												
CCV1	1.00	22:58		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB1	1.00	23:01		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CRDL1	1.00	23:04		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICS-A1	1.00	23:08		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICS-AB1	1.00	23:11		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCV2	1.00	23:14		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB2	1.00	23:18		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
PBW	1.00	23:21		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
LCSW	1.00	23:24		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	23:28																												
ZZZZZZ	1.00	23:31																												
ZZZZZZ	1.00	23:34																												
ZZZZZZ	1.00	23:37																												
ZZZZZZ	5.00	23:41																												
ZZZZZZ	1.00	23:44																												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: Agilent ICP Method: P

Start Date: 10/31/2017 End Date: 11/1/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	23:47																												
ZZZZZZ	1.00	23:51																												
CCV3	1.00	23:54		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB3	1.00	23:57		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	00:01																												
ZZZZZZ	1.00	00:04																												
ZZZZZZ	1.00	00:07																												
ZZZZZZ	1.00	00:11																												
MW-7	1.00	00:14		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X		X	X				
MW-3 Diss	1.00	00:17		X	X	X	X	X	X		X	X	X						X		X	X	X		X	X				
MW-3	1.00	00:21		X	X	X	X	X	X		X	X	X		X	X			X			X	X		X	X				
MW-D	1.00	00:24		X	X	X	X	X	X		X	X	X		X	X			X		X	X	X		X	X				
MW-D Diss	1.00	00:27		X	X	X	X	X	X		X	X	X		X	X			X			X	X		X	X				
MW-8	1.00	00:30		X	X	X	X	X	X		X	X	X			X			X		X	X	X	X	X	X				
CCV4	1.00	00:34		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB4	1.00	00:37		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
MW-8 Diss	1.00	00:40		X	X	X	X	X	X		X	X	X			X			X	X		X	X	X	X	X				
MW-8 DissL	5.00	00:44		X	X	X	X	X	X		X	X	X			X			X	X		X	X	X	X	X				
ZZZZZZ	1.00	00:47																												
ZZZZZZ	1.00	00:50																												
CCV5	1.00	00:54		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB5	1.00	00:57		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CRDL2	1.00	01:00		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICS-A2	1.00	01:04		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
ICS-AB2	1.00	01:07		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCV6	1.00	01:10		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				
CCB6	1.00	01:14		X	X	X	X	X	X		X	X	X	X	X	X			X	X	X	X	X	X	X	X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 11/3/2017 End Date: 11/3/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
Calib Blank	1.00	12:20																X									
0.2ppb std	1.00	12:22																X									
0.5ppb std	1.00	12:23																X									
1.0ppb std	1.00	12:25																X									
2.0ppb std	1.00	12:27																X									
5.0ppb std	1.00	12:28																X									
10.0ppb std	1.00	12:30																X									
ICV1	1.00	12:31																X									
ICB1	1.00	12:33																X									
CRDL1	1.00	12:35																X									
CCV1	1.00	12:36																X									
CCB1	1.00	12:38																X									
PBW	1.00	12:40																X									
LCSW	1.00	12:41																X									
ZZZZZZ	1.00	12:43																									
ZZZZZZ	1.00	12:44																									
ZZZZZZ	1.00	12:46																									
CCV2	1.00	12:48																X									
CCB2	1.00	12:49																X									
ZZZZZZ	1.00	12:51																									
ZZZZZZ	1.00	12:53																									
ZZZZZZ	1.00	12:54																									
MW-7	1.00	12:56																X									
MW-3 Diss	1.00	12:58																X									
CCV3	1.00	12:59																X									
CCB3	1.00	13:01																X									
MW-3	1.00	13:02																X									
MW-D	1.00	13:04																X									
MW-D Diss	1.00	13:06																X									
MW-8	1.00	13:07																									
MW-8 Diss	1.00	13:09																X									
CCV4	1.00	13:11																X									
CCB4	1.00	13:12																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-14-

ANALYSIS RUN LOG

Contract: R1710113

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: MW-7

Instrument ID Number: PE FAA/CVAA Method: CV

Start Date: 11/3/2017 End Date: 11/3/2017

Sample ID.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	13:14																												
ZZZZZZ	1.00	13:16																												
ZZZZZZ	1.00	13:17																												
ZZZZZZ	1.00	13:19																												
MW-8	5.00	13:20																X												
ZZZZZZ	1.00	13:22																												
CCV5	1.00	13:24																X												
CCB5	1.00	13:25																X												
ZZZZZZ	1.00	13:27																												
ZZZZZZ	1.00	13:29																												
ZZZZZZ	1.00	13:30																												
ZZZZZZ	1.00	13:32																												
ZZZZZZ	1.00	13:34																												
CRDL2	1.00	13:35																X												
CCV6	1.00	13:37																X												
CCB6	1.00	13:39																X												

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

METALS

-13-

PREPARATION LOG

Contract: R1710113

Lab Code: _____ **Case No.:** _____ **SAS No.:** _____ **SDG NO.:** MW-7

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
LCSW	10/30/2017	50.0	50.0
PBW	10/30/2017	50.0	50.0
MW-7	10/30/2017	50.0	50.0
MW-3	10/30/2017	50.0	50.0
MW-3 Diss	10/30/2017	50.0	50.0
MW-D	10/30/2017	50.0	50.0
MW-D Diss	10/30/2017	50.0	50.0
MW-8	10/30/2017	50.0	50.0
MW-8 Diss	10/30/2017	50.0	50.0

Comments:

METALS

-13-

PREPARATION LOG

Contract: R1710113

Lab Code: _____ **Case No.:** _____ **SAS No.:** _____ **SDG NO.:** MW-7

Method: CV

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
LCSW	11/2/2017	25.0	25.0
PBW	11/2/2017	25.0	25.0
MW-7	11/2/2017	25.0	25.0
MW-3	11/2/2017	25.0	25.0
MW-3 Diss	11/2/2017	25.0	25.0
MW-D	11/2/2017	25.0	25.0
MW-D Diss	11/2/2017	25.0	25.0
MW-8	11/2/2017	25.0	25.0
MW-8 Diss	11/2/2017	25.0	25.0

Comments: